

# Author Index

CHIMIA 69 (2015)

- Abdon, A.*, see *Worlitschek, J.*, 777  
*Ackermann, J.*, see *Neidhart, W.*, 407  
*Adibekian, A.*, *Magauer, T.*, Conference Report: The 50<sup>th</sup> EUCHEM Conference on Stereochemistry (Bürgenstock Conference 2015), Brunnen, April 26<sup>th</sup>–Mai 1<sup>st</sup>, 2015, 485  
*Adlhart, C.*, *Fleischli, F. D.*, *Morf, F.*, Universities of Applied Sciences: Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using *in vivo* Confocal Raman Microscopy, 147  
*Aghazada, S.*, see *Nazeeruddin, M. K.*, 253  
*Aghazada, S.*, see *Nazeeruddin, M. K.*, 274  
*Aicher, L.*, see *Walser, T.*, 52  
*Aicher, L.*, see *Walser, T.*, 804  
*Al-Oweini, R.*, see *Kortz, U.*, 537  
*Albrecht, M.*, *Licini, G.*, Iridium-mediated Bond Activation and Water Oxidation as an Exemplary Case of CARISMA, A European Network for the Development of Catalytic Routines for Small Molecule Activation, 316  
*Allardyce, C. S.*, *Bays, R.*, *Thévenaz, N.*, Light in Medicine: The Interplay of Chemistry and Light, 10  
*Ammann, A.*, see *Worlitschek, J.*, 777  
*Amrein, K.*, see *Neidhart, W.*, 407  
*Amstutz, V.*, see *Girault, H. H.*, 284  
*Amstutz, V.*, see *Girault, H. H.*, 753  
*Ang, W. H.*, *Ong, J. X.*, *Yap, S. Q.*, *Wong, D. Y. Q.*, *Chin, C. F.*, Platinum(IV) Carboxylate Prodrug Complexes as Versatile Platforms for Targeted Chemotherapy, 100  
*Aragay, G.*, see *Ballester P.*, 652  
  
*Bachmann, A. L.*, see *Fierz, B.*, 624  
*Bachmann, D.*, see *Daepfen, C.*, 63  
*Bag, N.*, see *Wohland, T.*, 112  
*Bagnoud-Velásquez, M.*, *Refardt, D.*, *Vuille, F.*, *Ludwig, C.*, Opportunities for Switzerland to Contribute to the Production of Algal Biofuels: the Hydrothermal Pathway to Bio-Methane, 614  
*Bährle, C.*, see *van Bokhoven, J. A.*, 597  
*Bakker, E.*, *Xie, X.*, *Gutiérrez, A.*, *Trofimov, V.*, *Szilagyia, I.*, *Soldati, T.*, Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes, 196  
*Bakker, E.*, *Cuartero, M.*, *Crespo, G. A.*, Thin Layer Samples Controlled by Dynamic Electrochemistry, 203  
  
*Ballester P.*, *Espelt, M.*, *Aragay, G.*, Resolving the Magnetic Asymmetry of the Inner Space in Self-assembled Dimeric Capsules Based on Tetraurea-calix[4]pyrrole Components, 652  
*Balog, S.*, Polymer and Colloid Highlights: Structural Studies of Radiation-grafted Copolymer Proton Exchange Membranes, 69  
*Baranoff, E.*, *Herbaut, A.*, UV-visible Absorption Study of the Self-association of Non-ionic Chromonic Triphenylenes TP6EOnM (n = 2, 3, 4) in Dilute Aqueous Solutions: Impact of Chain Length on Aggregation, 520  
*Barbato, M.*, see *Haselbacher, A.*, 799  
*Bassas-Galià, M.*, see *Mathieu, M.*, 627  
*Bassetto, V. C.*, see *Girault, H. H.*, 284  
*Bassil, B. S.*, see *Kortz, U.*, 537  
*Bays, R.*, see *Allardyce, C. S.*, 10  
*Beller, M.*, *Laurency, G.*, Editorial: Catalytic Activation of Small Molecules, 313  
*Benetti, E. M.*, *Ramakrishna, S. N.*, Polymer and Colloid Highlights: Lateral Deformability of Polymer Brushes by AFM-Based Method, 709  
*Bertini, F.*, see *Peruzzini, M.*, *Gonsalvi, L.*, 331  
*Bettens, R. P. A.*, *Ouyang, J. F.*, Modelling Water: A Lifetime Enigma, 104  
*Bieri, S.*, *Mathon, C.*, *Edder, P.*, *Christen, P.*, Highlights of Analytical Sciences in Switzerland: Occurrence of Natural Hepatotoxins in Herbal Teas, 231  
*Binder, S. R.*, see *Hausseiner, S.*, 780  
*Biollaz, S. M. A.*, see *Schildhauer, T. J.*, 603  
*Biotechnet Switzerland*, Biotechnet Switzerland: A Network Sets Things in Motion: TEDD Celebrates its 5th Anniversary, 690  
*Bisig, C.*, see *Rothen-Rutishauser, B.*, 68  
*Blanchard-Desce, M.*, see *Lemercier, G.*, 666  
*Blaser, H.-U.*, Looking Back on 35 Years of Industrial Catalysis, 393  
*Blazina, T.*, see *Winkel, L.*, 547  
*Bobbink, F. D.*, see *Dyson, P. J.*, 765  
*Bodenmiller, B.*, *Günther, D.*, *Schwarz, G.*, *Wang, H. A. O.*, *Giessen, C.*, *Schapiro, D.*, *Hattendorf, B.*, Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637  
*Bodmann, K.*, *Marti, R.*, Conference Report: 12. Freiburger Symposium 2015: Smart Solutions in the Chemical Process & Product Development – Case Studies from the Chemical Industry, 698  
*Bodnarchuk, M. I.*, see *Kovalenko, M. V.*, 724  
*Bodoky, I.*, see *Daepfen, C.*, 63  
*Bondarenko, A.*, see *Girault, H. H.*, 290  
*Bonn, A. G.*, see *Wenger, O. S.*, 10  
*Börner, R.*, see *Sigel, R. K. O.*, 207  
*Bourée, W. S.*, see *Sivula, K.*, 789  
  
*Brethauer, S.*, see *Studer, M. H.*, 572  
*Broekmann, P.*, see *Durst, J.*, *Rudnev, A.*, 769  
*Brog, J.-P.*, see *Kwon, N. H.*, *Fromm, K. M.*, 734  
*Brönnimann, R.*, see *Emmenegger, L.*, 708  
*Bryan, L. C.*, see *Fierz, B.*, 624  
*Bui, D. A.*, see *Hauser, P. C.*, 806  
*Buyck, T.*, see *Zhu, J.*, 199  
  
*Callini, E.*, see *Züttel, A.*, 264  
*Callini, E.*, *Kato, S.*, *Mauron, P.*, *Züttel, A.*, Surface Reactions are Crucial for Energy Storage, 269  
*Callini, E.*, see *Züttel, A.*, 741  
*Chappuis, T.*, see *Vorlet, O.*, 807  
*Chen, X.*, see *Yan, N.*, 120  
*Chevreur, S.*, see *Lemercier, G.*, 666  
*Chiaia-Hernandez, A. C.*, see *Giger, W.*, 488  
*CHIMIA Editorial Board*, CHIMIA News, 1  
*CHIMIA Editorial Board*, Instructions to Authors, 2015, 2  
*Chin, C. F.*, see *Ang, W. H.*, 100  
*Christen, P.*, see *Bieri, S.*, 231  
*Comas-Vives, A.*, see *Núñez-Zarur, F.*, 225  
*Comte, P.*, see *Rothen-Rutishauser, B.*, 68  
*Conte, A.*, see *Neidhart, W.*, 407  
*Copéret, C.*, *Estes, D. P.*, The Role of Proton Transfer in Heterogeneous Transformations of Hydrocarbons, 321  
*Copéret, C.*, *Tada, S.*, *Thiel, I.*, *Lo, H.-K.*, CO<sub>2</sub> Hydrogenation: Supported Nanoparticles vs. Immobilized Catalysts, 759  
*Corsi, C.*, see *Walter, H.*, 425  
*Cortés-Salazar, F.*, see *Girault, H. H.*, 284  
*Cortés-Salazar, F.*, see *Girault, H. H.*, 290  
*Cramer, N.*, *Souillart, L.*, Enantioselective Rhodium-catalyzed C–C Bond Activation of Cyclobutanones, 187  
*Crespo, G. A.*, see *Bakker, E.*, 203  
*Crochet, A.*, see *Kwon, N. H.*, *Fromm, K. M.*, 734  
*Cuartero, M.*, see *Bakker, E.*, 203  
*Custodis, V.*, see *van Bokhoven, J. A.*, 597  
*Czerwinski, J.*, see *Rothen-Rutishauser, B.*, 68  
*Czerwinski, J.*, see *Heeb, N.*, 152  
  
*Daali, Y.*, see *Daouk, S.*, 684  
*Dabros, M.*, *Vorlet, O.*, *Marti, R.*, *Riedl, W.*, *Grundler, G.*, *Vaccari, A.*, *Zinn, M.*, *Ecker, A.*, *Hinderling, C.*, Universities of Applied Sciences: PAT at the Universities of Applied Sciences, 482  
*Daepfen, C.*, *Bachmann, D.*, *Pannwitz, A.*, *Kerschgens, I.*, *Laupheimer, C.*, *Rother, M.*, *Jundt, L.*, *Rickhaus, M.*, *Gantenbein, M.*, *Bodoky, I.*, Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

- Daguenet-Frick, X., Gantenbein, P., Rommel, M., Fumey, B., Weber, R., Goonesekera, K., Williamson, T., Seasonal Solar Thermal Absorption Energy Storage Development, 784
- Dalgarno, S. J., Fairbairn, R. E., Teat, S. J., Gagnon, K. J., A Convenient Synthetic Route to Partial-Cone *p*-Carboxylato-calix[4]arenes, 516
- Daouk, S., Fleury-Souverain, S., Daali, Y., Development of an LC-MS/MS Method for the Assessment of Selected Active Pharmaceuticals and Metabolites in Wastewaters of a Swiss University Hospital, 684
- Das, S., see Dyson, P. J., 765
- Davey, C. A., Exposure to Metals Can Be Therapeutic, 125
- Delley, M. F., A Molecular Approach to Well-defined Metal Sites Supported on Oxides with Oxidation State and Nuclearity Control, 168
- Dennison, C. R., see Girault, H. H., 753
- Dibenedetto, A., Conditions for the Use of CO<sub>2</sub>, 353
- Döhlert, P., see Enthaler, S., 327
- Domanski, K., see Nazeeruddin, M. K., 253
- Domanski, K., see Nazeeruddin, M. K., 253
- Düinki, S. J., see Opris, D. M., 548
- Durst, J., Rudnev, A., Dutta, A., Fu, Y., Herranz, J., Kaliginedi, V., Kuzume, A., Permyakova, A. A., Paratcha, Y., Broekmann, P., Schmidt, T. J., Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769
- Dutta, A., see Durst, J., Rudnev, A., 769
- Dyson, P. J., Yan, N., Siankevich, S., Fei, Z., Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass, 592
- Dyson, P. J., Das, S., Bobbink, F. D., Gopakumar, A., Soft Approaches to CO<sub>2</sub> Activation, 765
- Ecker, A., see Dabros, M., 482
- Edder, P., see Bieri, S., 231
- Ellert, C., see Vorlet, O., 807
- Elsener, M., see Michalow-Mauke, K. A., Kröcher, O., 220
- Emmenegger, L., see Heeb, N., 152
- Emmenegger, L., Jágerská, J., Brönnimann, R., Faist, J., Jouy, P., Looser, H., Soltic, P., Tuzson, B., Highlights of Analytical Sciences in Switzerland: Multi-Component Trace Gas Spectroscopy Using Dual-Wavelength Quantum Cascade Lasers, 708
- Enthaler, S., Döhlert, P., Weidauer, M., Nitrous Oxide-dependent Iron-catalyzed Coupling Reactions of Grignard Reagents, 327
- Espelt, M., see Ballester P., 652
- Estes, D. P., see Copéret, C., 321
- Fairbairn, R. E., see Dalgarno, S. J., 516
- Faist, J., see Emmenegger, L., 708
- Fei, Z., see Yan, N., Dyson, P. J., 592
- Ferri, D., see Michalow-Mauke, K. A., Kröcher, O., 220
- Fierz, B., Bryan, L. C., Bachmann, A. L., Conference Report: Molecular and Chemical Mechanism in Epigenetics – Swiss Summer School 2015, July 12–17, 2015, Hotel Kurhaus, Arolla, Switzerland, 624
- Fink, C., see Laurenczy, G., 746
- Fiorini, E., see Sigel, R. K. O., 207
- Fischer, L. J., see Worlitschek, J., 777
- Fleischli, F. D., see Adlhart, C., 147
- Fleury-Souverain, S., see Daouk, S., 684
- Four, M., see Lemercier, G., 666
- Fromm, K. M., Kwon, N. H., Brog, J.-P., Maharajan, S., Crochet, A., Nanomaterials Meet Li-ion Batteries, 734
- Fu, Y., see Durst, J., Rudnev, A., 769
- Fumey, B., see Daguenet-Frick, X., 784
- Gagnon, K. J., see Dalgarno, S. J., 516
- Gaillard, V., see Mathieu, M., 627
- Gantenbein, M., see Daepfen, C., 63
- Gantenbein, P., see Daguenet-Frick, X., 784
- Gao, P., see Nazeeruddin, M. K., 253
- Gao, P., see Nazeeruddin, M. K., 474
- Gasic, B., see Walser, T., 52
- Gasic, B., see Walser, T., 804
- Gasilova, N., see Girault, H. H., 290
- Gasser, G., Mari, C., Lightening up Ruthenium Complexes to Fight Cancer? 176
- Gasser, G., Metal Complexes and Medicine: A Successful Combination, 442
- Geissbühler, L., see Haselbacher, A., 799
- Germann, M., Willitsch, S., Tong, X., Forbidden Vibrational Transitions in Cold Molecular Ions: Experimental Observation and Potential Applications, 213
- Giessen, C., see Bodenmiller, B., Günther, D., 637
- Giger, W., Chiaia-Hernandez, A. C., Conference Report: International Conference on Contaminated Sediments – ContSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488
- Giordano, F., see Vorlet, O., 807
- Girault, H. H., Lesch, A., Cortés-Salazar, F., Bassetto, V. C., Amstutz, V., Inkjet Printing Meets Electrochemical Energy Conversion, 284
- Girault, H. H., Bondarenko, A., Cortés-Salazar, F., Gasilova, N., Lesch, A., Qiao, L., Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique, 290
- Girault, H. H., Dennison, C. R., Vrabel, H., Amstutz, V., Peljo, P., Toghil, K. E., Redox Flow Batteries, Hydrogen and Distributed Storage, 753
- Gonsalvi, L., Peruzzini, M., Mellone, I., Bertini, F., Guerriero, A., New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331
- Gonzalez, A., see Mathieu, M., 627
- Goonesekera, K., see Daguenet-Frick, X., 784
- Gopakumar, A., see Dyson, P. J., 765
- Graf-Hausner, U., Rimann, M., Laternser, S., Keller, H., Leupin, O., Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65
- Grass, R. N., see Stark, W. J., 369
- Graule, T., see Michalow-Mauke, K. A., Kröcher, O., 220
- Gribkov, D., see Walter, H., 425
- Grundler, G., see Dabros, M., 482
- Guerriero, A., see Peruzzini, M., Gonsalvi, L., 331
- Guijarro, N., see Sivula, K., 30
- Günther, D., Bodenmiller, B., Schwarz, G., Wang, H. A. O., Giessen, C., Schapiro, D., Hattendorf, B., Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637
- Guo, S., see Zhao, J., 524
- Gutiérrez, A., see Bakker, E., 196
- Gwerder, D., see Worlitschek, J., 777
- Haag, R., see Heeb, N., 152
- Hagfeldt, A., Editorial: Chemistry and Light: The International Year of Light, 6
- Hagfeldt, A., Vlachopoulos, N., Zhang, J., Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors, 41
- Häner, R., Bösch, C. D., Probst, M., Vyborna, Y., Vybornyi, M., Langenegger, S. M., Swiss Science Concentrates 70, 153, 233, 302, 370, 495, 549, 638, 710, 805
- Haselbacher, A., Geissbühler, L., Zavattoni, S., Barbato, M., Zanganeh, G., Steinfeld, A., Experimental and Numerical Investigation of Combined Sensible/Latent Thermal Energy Storage for High-Temperature Applications, 799
- Hassan, H. M. A., A Short History of the Use of Plants as Medicines from Ancient Times, 622
- Hattendorf, B., see Bodenmiller, B., Günther, D., 637
- Haudecoeur, R., see Monchaud, D., 530
- Hauser, P. C., see Koenka, I. J., 172
- Hauser, P. C., Bui, D. A., Highlights of Analytical Sciences in Switzerland: Deep UV-LED Based Absorbance Detectors for Narrow-Bore HPLC and Capillary Electrophoresis, 806

- Haussener, S., Perraudin, D. Y. S., Binder, S. R., Rezaei, E., Ortona, A.*, Phase Change Material Systems for High Temperature Heat Storage, 780
- Heeb, N., Haag, R., Schmid, P., Seiler, C., Wichser, A., Zennegg, M., Honegger, P., Zeyer, K., Emmenegger, L., Zimmerli, Y., Czerwinski, J., Mayer, A.*, Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Analytical and a Toxicological Challenge, 152
- Heinzelmann, E.*, Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59
- Heinzelmann, E.*, Biotechnet Switzerland: Recovering Valuable Phosphates: Chemical Biotechnology as a Problem Solver for the Environment, 296
- Heinzelmann, E.*, Biotechnet Switzerland: Biotech Meets Chemistry: Roche Invests in Customized Training, 298
- Heinzelmann, E.*, Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362
- Heinzelmann, E.*, Biotechnetnet Switzerland: ORION – A Global Approach to Waste Management, 365
- Heinzelmann, E.*, Biotechnet Switzerland: 7<sup>th</sup> Waedenswil Day of Chemistry – Personalized Medicine: Full Speed Ahead! 491
- Heinzelmann, E.*, Biotechnet Switzerland: One Step ahead in Cell Cultivation – International Advanced Training Course at ZHAW Waedenswil, 631
- Heinzelmann, E.*, Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634
- Heinzelmann, E.*, *Biotechnet Switzerland*: Moving 3D Cell Cultures from Bench to Practice - TEDD Annual Meeting at ZHAW Waedenswil 22 October 2015, 694
- Heinzelmann, E.*, Biotechnet Switzerland: Platform for a Technological Leap in Antibiotics, 809
- Held, M., Sennhauser, U.*, Stress-induced Ageing of Lithium-Ion Batteries, 737
- Hemberger, P.*, see *van Bokhoven, J. A.*, 597
- Herbaut, A.*, see *Baranoff, E.*, 520
- Héroguel, F. E.*, see *Luterbacher, J. S.*, 582
- Herranz, J.*, see *Durst, J., Rudnev, A.*, 769
- Hettich, T.*, see *Schlotterbeck, G.*, 294
- Hinderling, C.*, see *Dabros, M.*, 482
- Hoet, P.*, see *Walser, T.*, 52
- Hoet, P.*, see *Walser, T.*, 804
- Hofer, C. J.*, see *Stark, W. J.*, 369
- Holzer, M.*, see *Züttel, A.*, 264
- Honegger, P.*, see *Heeb, N.*, 152
- Hou, J.-Y.*, see *Pan, M.*, 670
- Huang, Y.*, see *Yeo, B. S.*, 131
- Huanga, J.*, see *Züttel, A.*, 264
- Hunziker, D.*, see *Neidhart, W.*, 407
- Huwylser, J.*, see *Walser, T.*, 52
- Huwylser, J.*, see *Walser, T.*, 804
- Jágorská, J.*, see *Emmenegger, L.*, 708
- Jahnke, W., Skora, L.*, Contributions of Biomolecular NMR to Allosteric Drug Discovery, 421
- Jeschke, G.*, see *van Bokhoven, J. A.*, 597
- Jessen, H. J., Simon, Y. C., Merz, L.*, SCNAT: The 8<sup>th</sup> Young Faculty Meeting – An Active Crowd Attuned to Modern Challenges, 475
- Joó, F.*, see *Kathó, A.*, 339
- Jouy, P.*, see *Emmenegger, L.*, 708
- Jundt, L.*, see *Daepfen, C.*, 63
- Kägi, R.*, see *Walser, T.*, 52
- Kägi, R.*, see *Walser, T.*, 804
- Kaliginedi, V.*, see *Durst, J., Rudnev, A.*, 769
- Kambolis, A., Schildhauer, T. J., Kröcher, O.*, CO Methanation for Synthetic Natural Gas Production, 608
- Kammerer, F.*, see *Zehringer, M.*, 301
- Kase, R.*, see *Walser, T.*, 52
- Kase, R.*, see *Walser, T.*, 804
- Kathó, A., Szatmári, I., Papp, G., Joó, F.*, Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst, 339
- Kato, S.*, see *Züttel, A.*, 264
- Kato, S.*, see *Callini, E.*, 269
- Kato, S.*, see *Züttel, A.*, 741
- Katranji, F.*, see *Monchaud, D.*, 530
- Keller, H.*, see *Graf-Hausner, U.*, 65
- Kerschgens, I.*, see *Daepfen, C.*, 63
- Kobe, A.*, see *Walser, T.*, 52
- Kobe, A.*, see *Walser, T.*, 804
- Kocabas Atakli, Z. Ö.*, see *Züttel, A.*, 741
- Koenka, I. J., Sáiz, J., Hauser, P. C.*, Instrumentino: An Open-Source Software for Scientific Instruments, 172
- Kortz, U., Liu, W., Lin, Z., Bassil, B. S., Al-Oweini, R.*, Synthesis and Structure of Hexatungstochromate(III), [H<sub>3</sub>Cr<sup>III</sup>W<sub>6</sub>O<sub>24</sub>]<sup>6-</sup>, 537
- Kory, M. J.*, see *Schlüter, A. D.*, 217
- Kovalenko, M. V., Walter, M., Bodnarchuk, M. I., Kravchyk, K. V.*, Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries, 724
- Kowalski, K.*, see *Michalow-Mauke, K. A., Kröcher, O.*, 220
- Kravchyk, K. V.*, see *Kovalenko, M. V.*, 724
- Kröcher, O., Michalow-Mauke, K. A., Lu, Y., Ferri, D., Graule, T., Kowalski, K., Elsener, M.*, WO<sub>3</sub>/CeO<sub>2</sub>/TiO<sub>2</sub> Catalysts for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub>: Effect of the Synthesis Method, 220
- Kröcher, O.*, Editorial: SCCER BIOSWEET – The Swiss Competence Center for Energy Research on Bioenergy, 569
- Kröcher, O., Kambolis, A., Schildhauer, T. J.*, CO Methanation for Synthetic Natural Gas Production, 608
- Kuhn, B.*, see *Neidhart, W.*, 407
- Kündig, E. P., Spichiger, D.*, Editorial: SCS Laureates and Awards & Fall Meeting 2015, 385
- Kuzume, A.*, see *Durst, J., Rudnev, A.*, 769
- Kwon, N. H., Fromm, K. M., Brog, J.-P., Maharajan, S., Crochet, A.*, Nanomaterials Meet Li-ion Batteries, 734
- Laguerre, A.*, see *Monchaud, D.*, 530
- Laternser, S.*, see *Graf-Hausner, U.*, 65
- Laupheimer, C.*, see *Daepfen, C.*, 63
- Laurency, G., Beller, M.*, Editorial: Catalytic Activation of Small Molecules, 313
- Laurency, G., Fink, C., Montandon-Clerc, M.*, Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746
- Le Formal, F.*, see *Sivula, K.*, 30
- Le Formal, F.*, see *Sivula, K.*, 789
- Lee, A. C.-H.*, see *William, A. D.*, 142
- Lemercier, G., Mongin, O., Four, M., Chevreux, S., Blanchard-Desce, M.*, Two-photon Absorption Engineering of 5-(Fluorenyl)-1,10-phenanthroline-based Ru(II) Complexes, 666
- Lesch, A.*, see *Girault, H. H.*, 284
- Lesch, A.*, see *Girault, H. H.*, 290
- Leupin, O.*, see *Graf-Hausner, U.*, 65
- Levillain, M.*, see *Monchaud, D.*, 530
- Li, J.*, see *Xu, Q.*, 348
- Li, W.*, see *Wu, X.-F.*, 345
- Li, Z., Yang, Y.*, Evolving P450pyr Monooxygenase for Regio- and Stereoselective Hydroxylations, 136
- Licini, G.*, see *Albrecht, A.*, 316
- Lin, Z.*, see *Kortz, U.*, 537
- Ling-Chen*, see *Pan, M.*, 670
- Liu, W.*, see *Kortz, U.*, 537
- Lo, H.-K.*, see *Copéret, C.*, 759
- Looser, H.*, see *Emmenegger, L.*, 708
- Lu, Y.*, see *Michalow-Mauke, K. A., Kröcher, O.*, 220
- Ludwig, C.*, see *Bagnoud-Velásquez, M.*, 614
- Ludwig, P. E., Vaucher, A. C., Phong Lê, T., Suter, Y.*, Two Bronze Medals for Switzerland at the 46<sup>th</sup> International Chemistry Olympiad in Hanoi, Vietnam, 71
- Luterbacher, J. S., Héroguel, F. E., Rozmystowicz, B.*, Improving Heterogeneous Catalyst Stability for Liquid-phase Biomass Conversion and Reforming, 582
- Lüthi, H. P.*, Editorial: Laureates: Junior Prizes, SCS Fall Meeting 2014, 165
- Ma, Z.*, see *van Bokhoven, J. A.*, 597
- Magauer, T., Adibekian, A.*, Conference Report: The 50<sup>th</sup> EUCHEM Conference on Stereochemistry (Bürgenstock Conference 2015), Brunnen, April 26<sup>th</sup>–Mai 1<sup>st</sup>, 2015, 485

- Maharajan, S., see Kwon, N. H., Fromm, K. M., 734
- Man, N. Y. T., see Wu, X.-F., 345
- Mari, C., see Gasser, G., 176
- Marino, C., see Villevieille, C., 729
- Märki, H. P., see Neidhart, W., 407
- Marti, R., see Dabros, M., 482
- Marti, R., Bodmann, K., Conference Report: 12. Freiburger Symposium 2015: Smart Solutions in the Chemical Process & Product Development – Case Studies from the Chemical Industry, 698
- Mathieu, M., Bassas-Galià, M., Gonzalez, A., Micaux, F., Gaillard, V., Piantini, U., Schintke, S., Zinn, M., Universities of Applied Sciences: Chemical Modification of Polyhydroxyalkanoates (PHAs) for the Preparation of Hybrid Biomaterials, 627
- Mathon, C., see Bieri, S., 231
- Mauron, P., see Callini, E., 269
- Mauron, P., see Züttel, A., 264
- Mayer, A., see Rothen-Rutishauser, B., 68
- Mayer, A., see Heeb, N., 152
- Mayweg, A. V., see Neidhart, W., 407
- Mellone, I., see Peruzzini, M., Gonsalvi, L., 331
- Merz, L., SCNAT: New President, New Board Member and New Chief Science Officer of the «Platform Chemistry», 57
- Merz, L., SCNAT: 2015 SCNAT /SCS Chemistry Travel Award, 58
- Merz, L., Simon, Y. C., Jessen, H. J., SCNAT: The 8<sup>th</sup> Young Faculty Meeting – An Active Crowd Attuned to Modern Challenges, 475
- Merz, L., SCNAT: 2015 Chemistry Travel Award by SCNAT, SCS and SSFEC, 478
- Merz, L., SCNAT: Chemical Landmark 2015 – Designation of the Former Institute of Chemistry of the University of Fribourg, 812
- Micaux, F., see Mathieu, M., 627
- Michalow-Mauke, K. A., Kröcher, O., Lu, Y., Ferri, D., Graule, T., Kowalski, K., Elsener, M., WO<sub>3</sub>/CeO<sub>2</sub>/TiO<sub>2</sub> Catalysts for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub>: Effect of the Synthesis Method, 220
- Monchaud, D., Laguerre, A., Levillain, M., Stefan, L., Haudecoeur, R., Katranji, F., Pirrotta, M., Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530
- Mongin, O., see Lemercier, G., 666
- Montandon-Clerc, M., see Laurency, G., 746
- Morf, F., see Adlhart, C., 147
- Mukherjee, P. S., Roy, B., Shanmugaraju, S., Saha, R., Self-assembly of Metallamacrocycles Employing a New Benzil-based Organometallic Bisplatinum(II) Acceptor, 541
- Natsch, A., What Makes Us Smell: The Biochemistry of Body Odour and the Design of New Deodorant Ingredients, 414
- Nazeeruddin, M. K., Gao, P., Domanski, K., Aghazada, S., Molecular Engineering of Functional Materials for Energy and Opto-Electronic Applications, 253
- Nazeeruddin, M. K., Gao, P., Domanski, K., Aghazada, S., Rakstys, K., Paek, S., Corrigendum: CHIMIA 2015, 69, 253 474
- Neidhart, W., Ackermann, J., Amrein, K., Conte, A., Hunziker, D., Kuhn, B., Märki, H. P., Nettekoven, M., Ruf, A., Schulz-Gasch, T., Mayweg, A. V., Challenges and Rewards in Medicinal Chemistry Targeting Cardiovascular and Metabolic Diseases, 407
- Nettekoven, M., see Neidhart, W., 407
- Ng, X. W., see Wohland, T., 112
- Nowack, B., see Walser, T., 52
- Nowack, B., see Walser, T., 804
- Núñez-Zarur, F., Comas-Vives, A., The Effect of the Electronic Nature of Spectator Ligands in the C–H Bond Activation of Ethylene by Cr(III) Silicates: An *ab initio* Study, 225
- Ong, J. X., see Ang, W. H., 100
- Opris, D. M., Diñki, S. J., Polymer and Colloid Highlights: Polysiloxanes with Increased Permittivity as Artificial Muscles, 548
- Ortona, A., see Haussener, S., 780
- Ouyang, J. F., see Bettens, R. P. A., 104
- Paek, see Nazeeruddin, M. K., 474
- Pal, A. K., Transition Metal Complexes of Bidentate and Tridentate Ligands: From Optoelectronic Studies to Supramolecular Assemblies, 659
- Pan, M., Zheng, S.-R., Hou, J.-Y., Ling-Chen, Yin, S.-Y., Wu, K., Zhang, L.-Y., Su, C.-Y., Dimension Increase via Hierarchical Hydrogen Bonding from Simple Pincer-like Mononuclear Complexes, 670
- Pannwitz, A., see Daepfen, C., 63
- Papp, G., see Kathó, A., 339
- Paratcha, Y., see Durst, J., Rudnev, A., 769
- Peljo, P., see Girault, H. H., 753
- Permyakova, A. A., see Durst, J., Rudnev, A., 769
- Perraudin, D. Y. S., see Haussener, S., 780
- Peruzzini, M., Gonsalvi, L., Mellone, I., Bertini, F., Guerriero, A., New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331
- Petri-Fink, A., see Rothen-Rutishauser, B., 68
- Piantini, U., see Mathieu, M., 627
- Pirrotta, M., see Monchaud, D., 530
- Prabusankar, G., see Sathiyendiran, M., 675
- Prévôt, A. S. H., see Szidat, S., 368
- Prévôt, M. S., see Sivula, K., 789
- Pulgarin, C., Fe vs. TiO<sub>2</sub> Photo-assisted Processes for Enhancing the Solar Inactivation of Bacteria in Water, 7
- Qiao, L., see Girault, H. H., 290
- Queen, W. L., Stylianou, K. C., Recent Advances in Carbon Capture with Metal–Organic Frameworks, 274
- Ramakrishna, S. N., see Benetti, E. M., 709
- Ramakrishnan, R., see von Lilienfeld, O. A., 182
- Ratstys, K., see Nazeeruddin, M. K., 474
- Refardt, D., see Bagnoud-Velásquez, M., 614
- Reisner, E., Windle, C. D., Heterogenised Molecular Catalysts for the Reduction of CO<sub>2</sub> to Fuels, 435
- Ren, D., see Yeo, B. S., 131
- Rensmo, H., see Siegbahn, H., 22
- Rezaei, E., see Haussener, S., 780
- Rickhaus, M., see Daepfen, C., 63
- Riedl, W., see Dabros, M., 482
- Rimann, M., see Graf-Hausner, U., 65
- Rommel, M., see Daguinet-Frick, X., 784
- Roth, J., Schmidt, T. J., Editorial: SCCER – The Swiss Competence Center for Energy – Energy Storage Research in Switzerland, 721
- Rothen-Rutishauser, B., see Walser, T., 52
- Rothen-Rutishauser, B., see Walser, T., 804
- Rothen-Rutishauser, B., Bisig, C., Steiner, S., Czerwinski, J., Comte, P., Mayer, A., Petri-Fink, A., Highlights of Analytical Sciences in Switzerland: A Fast and Reliable *in vitro* Method for Screening of Exhaust Emission Toxicity in Lung Cells, 68
- Rother, M., see Daepfen, C., 63
- Roy, B., see Mukherjee, P. S., 541
- Rozmystowicz, B., see Luterbacher, J. S., 582
- Rudnev, A., Durst, J., Dutta, A., Fu, Y., Herranz, J., Kaliginedi, V., Kuzume, A., Permyakova, A. A., Paratcha, Y., Broekmann, P., Schmidt, T. J., Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769
- Ruf, A., see Neidhart, W., 407
- Rumpel, N., see Zehring, M., 301
- Saha, R., see Mukherjee, P. S., 541
- Sáiz, J., see Koenka, I. J., 172
- Sathiyendiran, M., Saxena, P., Shankar, B., Sathyanarayana, A., Prabusankar, G., Rhenium(II)-based Double-heterostrand Helicates, 675
- Sathyanarayana, A., see Sathiyendiran, M., 675
- Saxena, P., see Sathiyendiran, M., 675
- Schapiro, D., see Bodenmüller, B., Günther, D., 637

- Schildhauer, T. J., Biollaz, S. M. A., Reactors for Catalytic Methanation in the Conversion of Biomass to Synthetic Natural Gas (SNG), 603
- Schildhauer, T. J., Kambolis, A., Kröcher, O., CO Methanation for Synthetic Natural Gas Production, 608
- Schintke, S., see Mathieu, M., 627
- Schirmer, K., see Walser, T., 52
- Schirmer, K., see Walser, T., 804
- Schlapbach, R., see Selevsek, N., 494
- Schlotterbeck, G., Hettich, T., Universities of Applied Sciences: Novel Analytical Workflow for Comprehensive Non-targeted Phytochemical Metabolic Profiling, 294
- Schlüter, A. D., Kory, M. J., Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets, 217
- Schmid, P., see Heeb, N., 152
- Schmidt, T. J., Roth, J., Editorial: SCCER – The Swiss Competence Center for Energy – Energy Storage Research in Switzerland, 721
- Schmidt, T. J., see Durst, J., Rudnev, A., 769
- Schneider, G., see Walser, T., 52
- Schroder, R. R., Metathesis by Molybdenum and Tungsten Catalysts, 388
- Schulz-Gasch, T., see Neidhart, W., 407
- Schwarz, G., see Bodenmiller, B., Günther, D., 637
- SCNAT, SCNAT: Chemical Landmarks, 225
- SCS Foundation Alfred Werner Fund, Master's Student Scholarships, 496
- Sehaqui, H., see Zimmermann, T., 232
- Seiler, C., see Heeb, N., 152
- Selevsek, N., Schlapbach, R., Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494
- Sennhauser, U., see Held, M., 737
- Severin, K., see Wise, M. D., 191
- Shankar, B., see Sathiyendiran, M., 675
- Shanmugaraju, S., see Mukherjee, P. S., 541
- Siankevich, S., see Yan, N., Dyson, P. J., 592
- Siegbahn, H., Rensmo, H., Photoelectron Spectroscopy for Chemical Analysis, 22
- Sigel, R. K. O., Fiorini, E., Börner, R., Mimicking the *in vivo* Environment – The Effect of Crowding on RNA and Biomacromolecular Folding and Activity, 207
- Simon, Y. C., Jessen, H. J., Merz, L., SCNAT: The 8<sup>th</sup> Young Faculty Meeting – An Active Crowd Attuned to Modern Challenges, 475
- Sivula, K., Guijarro, N., Le Formal, F., Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30
- Sivula, K., Le Formal, F., Bourée, W. S., Prévot, M. S., Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis, 789
- Skora, L., see Jahnke, W., 414
- Smit, B., Editorial: Energypolis: Chemistry for Energy, 245
- Smit, B., Screening Materials Relevant for Energy Technologies, 248
- Soldati, T., see Bakker, E., 196
- Soltic, P., see Emmenegger, L., 708
- Soullart, L., see Cramer, N., 187
- Spichiger, D., Kündig, E. P., Editorial: SCS Laureates and Awards & Fall Meeting 2015, 385
- Stamatiou, A., see Worlitschek, J., 777
- Stark, W. J., Hofer, C. J., Zeltner, M., Grass, R. N., Polymer and Colloid Highlights: Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions, 369
- Stefan, L., see Monchaud, D., 530
- Steiner, S., see Rothen-Rutishauser, B., 68
- Steinfeld, A., see Haselbacher, A., 799
- Stewart, S. G., see Wu, X.-F., 345
- Studer, C., see Walser, T., 52
- Studer, C., see Walser, T., 804
- Studer, M. H., Brethauer, S., Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review, 572
- Stulz, E., Porphyrin-modified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics, 678
- Stylianou, K. C., Queen, W. L., Recent Advances in Carbon Capture with Metal–Organic Frameworks, 274
- Su, C.-Y., see Pan, M., 670
- Suter, Y., see Phong Lê, T., 71
- Swiss Chemical Society Annual Report 2014, 73
- Swiss Chemical Society KGF-SCS Industrial Science Awards, 234
- Swiss Chemical Society Review SCS Fall Meeting 2015, 639
- Swiss Chemical Society SCS Prize Winners 2016, 816
- Szatmári, I., see Kathó, A., 339
- Szidat, S., Prévôt, A. S. H., Highlights of Analytical Sciences in Switzerland: What are the Sources of Aerosols during Haze Events in China? 368
- Szilagyia, I., see Bakker, E., 196
- Tada, S., see Copéret, C., 759
- Teat, S. J., see Dalgarno, S. J., 516
- Therrien, B., Editorial: Supramolecular Chemistry, 513
- Therrien, B., Editorial: Supramolecular Chemistry Part 2, 649
- Thévenaz, N., see Allardyce, C. S., 10
- Thiel, I., see Copéret, C., 759
- Tingaut, P., see Zimmermann, T., 232
- Tobler, H., see Walter, H., 425
- Toghill, K. E., see Girault, H. H., 753
- Tong, X., see Willitsch, S., Germann, M., 213
- Trofimov, V., see Bakker, E., 196
- Tuzson, B., see Emmenegger, L., 708
- Vaccari, A., see Dabros, M., 482
- van Bokhoven, J. A., Ma, Z., Custodis, V., Hemberger, P., Bährle, C., Vogel, F., Jeschke, G., Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597
- Vaucher, A. C., see Phong Lê, T., 71
- Vermeissen, E., see Walser, T., 52
- Vermeirssen, E., see Walser, T., 804
- Villevieille, C., Vogt, L. O., Marino, C., Electrode Engineering of Conversion-based Negative Electrodes for Na-ion Batteries, 729
- Vlachopoulos, N., see Hagfeldt, A., 41
- Vogel, F., see van Bokhoven, J. A., 597
- Vogt, L. O., see Villevieille, C., 729
- von Goetz, N., see Walser, T., 52
- von Goetz, N., see Walser, T., 804
- von Lilienfeld, O. A., Ramakrishnan, R., Many Molecular Properties from One Kernel in Chemical Space, 182
- Vorlet, O., see Dabros, M., 482
- Vorlet, O., Giordano, F., Chappuis, T., Ellert, C., Universities of Applied Sciences: Effect of Experimental Parameters on Water Splitting Using a Hematite Photoanode, 807
- Vrubel, H., see Girault, H. H., 753
- Vuille, F., see Bagnoud-Velásquez, M., 614
- Wagmann, M., see Zehringer, M., 301
- Walser, T., Studer, C., Aicher, L., Gasic, B., von Goetz, N., Hoet, P., Huwyler, J., Kägi, R., Kase, R., Kobe, A., Nowack, B., Rothen-Rutishauser, B., Schirmer, K., Schneider, G., Vermeirssen, E., Wick, P., Scientific Basis for Regulatory Decision-Making of Nanomaterials: Report on the Workshop, 20–21 January 2014, Center of Applied Ecotoxicology, Dübendorf, 52
- Walser, T., Studer, C., Aicher, L., Gasic, B., von Goetz, N., Hoet, P., Huwyler, J., Kägi, R., Kase, R., Kobe, A., Nowack, B., Rothen-Rutishauser, B., Schirmer, K., Schneider, G., Vermeirssen, E., Wick, P., Corrigendum CHIMIA 2015, 69, 52, 804
- Walter, H., Tobler, H., Gribkov, D., Corsi, C., Sedaxane, Isopyrazam and Solatenol™: Novel Broad-spectrum Fungicides Inhibiting Succinate Dehydrogenase (SDH) – Synthesis Challenges and Biological Aspects, 425
- Walter, M., see Kovalenko, M. V., 724
- Wang, H. A. O., see Bodenmiller, B., Günther, D., 637
- Wang, Q., see Zhu, J., 199
- Wang, Y., see Yan, N., 120
- Wang, Z., see Zhao, J., 524
- Weber, R., see Daguene-Frick, X., 784
- Weidauer, M., see Enthaler, S., 327

- Wenger, O. S., Bonn, A. G., Photoinduced Charge Accumulation in Molecular Systems, 17
- Wichser, A., see Heeb, N., 152
- Wick, P., see Walser, T., 52
- Wick, P., see Walser, T., 804
- William, A. D., Lee, A. C.-H., Acid Mediated Ring Closing Metathesis: A Powerful Synthetic Tool Enabling the Synthesis of Clinical Stage Kinase Inhibitors, 142
- Williamson, T., see Daguinet-Frick, X., 784
- Willitsch, S., Germann, M., Tong, X., Forbidden Vibrational Transitions in Cold Molecular Ions: Experimental Observation and Potential Applications, 213
- Windle, C. D., see Reisner, E., 435
- Winkel, L., Blazina, T., Highlights of Analytical Sciences in Switzerland: Using Multiple Geochemical Techniques to Investigate Rainfall as a Potential Source of Selenium to Soils, 547
- Wise, M. D., Severin, K., Functionalised Clathrochelate Complexes – New Building Blocks for Supramolecular Structures, 191
- Wohland, T., Ng, X. W., Bag, N., Characterization of Lipid and Cell Membrane Organization by the Fluorescence Correlation Spectroscopy Diffusion Law, 112
- Wong, D. Y. Q., see Ang, W. H., 100
- Worlitschek, J., Stamatiou, A., Ammann, A., Abdon, A., Fischer, L. J., Gwerder, D., Storage of Heat, Cold and Electricity, 777
- Wu, K., see Pan, M., 670
- Wu, X.-F., Man, N. Y. T., Li, W., Stewart, S. G., Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source, 345
- Xie, X., see Bakker, E., 196
- Xu, Q., Li, J., Zhu, Q.-L., Dehydrogenation of Formic Acid by Heterogeneous Catalysts, 348
- Yan, N., Editorial: Singapore – Swiss Connections, 97
- Yan, N., Chen, X., Zhang, B., Wang, Y., Valorization of Renewable Carbon Resources for Chemicals, 120
- Yan, N., Dyson, P. J., Siankevich, S., Fei, Z., Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass, 592
- Yang, Y., see Li, Z., 136
- Yap, S. Q., see Ang, W. H., 100
- Yeo, B. S., Ren, D., Huang, Y., Electrocatalysts for the Selective Reduction of Carbon Dioxide to Useful Products, 131
- Yin, S.-Y., see Pan, M., 670
- Zanganeh, G., see Haselbacher, A., 799
- Zavattoni, S., see Haselbacher, A., 799
- Zehringer, M., Rumpel, N., Kammerer, F., Waggmann, M., Highlights of Analytical Sciences in Switzerland: Gamma Ray Spectrometry of Sewer Sludge – A Useful Tool for the Identification of Emission Sources in a City, 301
- Zeltner, M., see Stark, W. J., 369
- Zennegg, M., see Heeb, N., 152
- Zeyer, K., see Heeb, N., 152
- Zhang, B., see Yan, N., 120
- Zhang, J., see Hagfeldt, A., 41
- Zhang, L.-Y., see Pan, M., 670
- Zhao, J., Wang, Z., Guo, S., Triplet–Triplet Energy Transfer Study in Hydrogen Bonding Systems, 524
- Zheng, S.-R., see Pan, M., 670
- Zhu, J., Buyck, T., Wang, Q., Integrated One-Pot Synthesis of 1,3-Oxazinan-2-ones from Isocyanoacetates and Phenyl Vinyl Selenones, 199
- Zhu, Q.-L., see Xu, Q., 348
- Zimmerli, Y., see Heeb, N., 152
- Zimmermann, T., Sehaqui, H., Tingaut, P., Polymer and Colloid Highlights: Functional Materials from Cellulose Nanofibers, 232
- Zinn, M., see Dabros, M., 482
- Zinn, M., see Mathieu, M., 627
- Züttel, A., Mauron, P., Kato, S., Callini, E., Holzer, M., Huang, J., Storage of Renewable Energy by Reduction of CO<sub>2</sub> with Hydrogen, 264
- Züttel, A., see Callini, E., 269
- Züttel, A., Callini, E., Kato, S., Kocabas Atakli, Z. O., Storing Renewable Energy in the Hydrogen Cycle, 741

# Subject Index

CHIMIA 69 (2015)

## Adrenal cortex

Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

## Adsorption

Seasonal Solar Thermal Absorption Energy Storage Development, 784

## Adverse effects

Highlights of Analytical Sciences in Switzerland: A Fast and Reliable *in vitro* Method for Screening of Exhaust Emission Toxicity in Lung Cells, 68

## Aerosol mass spectroscopy

Highlights of Analytical Sciences in Switzerland: What are the Sources of Aerosols during Haze Events in China? 368

## Aggregation

UV-visible Absorption Study of the Self-association of Non-ionic Chromonic Triphenylenes TP6EOnM ( $n = 2, 3, 4$ ) in Dilute Aqueous Solutions: Impact of Chain Length on Aggregation, 520

## Air pollution

Highlights of Analytical Sciences in Switzerland: What are the Sources of Aerosols during Haze Events in China?, 368

## Aldehydes

Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst, 339

## Algae cultures

Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362

## Alkenes

Metathesis by Molybdenum and Tungsten Catalysts, 388

## Alkynes

Metathesis by Molybdenum and Tungsten Catalysts, 388

## Allosteric drug discovery

Contributions of Biomolecular NMR to Allosteric Drug Discovery, 421

## Alternative test method

Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65

## Aminoacylase

What Makes Us Smell: The Biochemistry of Body Odour and the Design of New Deodorant Ingredients, 414

## Anaerobic digestion machine

Biotechnet Switzerland: ORION – A Global Approach to Waste Management, 365

## Analytical chemistry

Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique, 290

## Anderson-Evans structure

Synthesis and Structure of Hexatungstochromate(III),  $[H_3Cr^{III}W_6O_{24}]^{6-}$ , 537

## Anilines

Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source, 345

## Anode materials

Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries, 724

## Antibiotic resistance

Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634

## Anticancer agent

Platinum(IV) Carboxylate Prodrug Complexes as Versatile Platforms for Targeted Chemotherapy, 100  
Exposure to Metals Can Be Therapeutic, 125

## Antimicrobial-resistant organisms

Biotechnet Switzerland: Platform for a Technological Leap in Antibiotics, 809

## Apoptosis

Light in Medicine: The Interplay of Chemistry and Light, 10

## Applied Research and Development

Universities of Applied Sciences: PAT at the Universities of Applied Sciences, 482

## Aqueous solution

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746

## Arduino

Instrumentino: An Open-Source Software for Scientific Instruments, 172

## Asymmetric catalysis

Enantioselective Rhodium-catalyzed C–C Bond Activation of Cyclobutanones, 187

## Atomic force microscopy

Polymer and Colloid Highlights: Lateral Deformability of Polymer Brushes by AFM-Based Method, 709

## Autophagy

Light in Medicine: The Interplay of Chemistry and Light, 10

## Bacteria inactivation

Fe vs. TiO<sub>2</sub> Photo-assisted Processes for Enhancing the Solar Inactivation of Bacteria in Water, 7

## Bacterial synthesis of metal chelators

Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634

## Benzimidazolyl ring

Dimension Increase *via* Hierarchical Hydrogen Bonding from Simple Pincer-like Mononuclear Complexes, 670

## Biocatalysis

Evolving P450<sub>pyr</sub> Monooxygenase for Regio- and Stereoselective Hydroxylations, 136

## Bioenergy

Editorial: SCCER BIOSWEET – The Swiss Competence Center for Energy Research on Bioenergy, 569

## Biofuel

Opportunities for Switzerland to Contribute to the Production of Algal Biofuels: the Hydrothermal Pathway to Bio-Methane, 614

## Biomass

Valorization of Renewable Carbon Resources for Chemicals, 120

New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331

Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass, 592

## Biomass conversion

Improving Heterogeneous Catalyst Stability for Liquid-phase Biomass Conversion and Reforming, 582

## Biomethanation microbial process

Biotechnet Switzerland: ORION – A Global Approach to Waste Management, 365

## Biomolecular NMR

Contributions of Biomolecular NMR to Allosteric Drug Discovery, 421

## Bioorganometallic chemistry

Metal Complexes and Medicine: A Successful Combination, 442

## Bioprinting standardization

Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65

## Biorefinery

Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review, 572

## Biosynthesis

Universities of Applied Sciences: Chemical Modification of Polyhydroxyalkanoates (PHAs) for the Preparation of Hybrid Biomaterials, 627

**Biotechnet Switzerland**

Biotechnet Switzerland: Biotech Meets Chemistry: Roche Invests in Customized Training, 298

**Bodipy**

Triplet–Triplet Energy Transfer Study in Hydrogen Bonding Systems, 524

**Bürgenstock conference 2015**

Conference Report: The 50<sup>th</sup> EUCHEM Conference on Stereochemistry (Bürgenstock Conference 2015), Brunnen, April 26<sup>th</sup>–May 1<sup>st</sup>, 2015, 485

**C–C bond activation**

Enantioselective Rhodium-catalyzed C–C Bond Activation of Cyclobutanones, 187

**C–H activation**

Evolving P450<sub>pyr</sub> Monooxygenase for Regio- and Stereoselective Hydroxylations, 136

The Effect of the Electronic Nature of Spectator Ligands in the C–H Bond Activation of Ethylene by Cr(III) Silicates: An *ab initio* Study, 225

**Calix[4]pyrrole**

Resolving the Magnetic Asymmetry of the Inner Space in Self-assembled Dimeric Capsules Based on Tetraurea-calix[4]pyrrole Components, 652

**Capillary detection**

Highlights of Analytical Sciences in Switzerland: Deep UV-LED Based Absorbance Detectors for Narrow-Bore HPLC and Capillary Electrophoresis, 806

**Carbon capture**

Screening Materials Relevant for Energy Technologies, 248

**Carbon dioxide**

Electrocatalysts for the Selective Reduction of Carbon Dioxide to Useful Products, 131

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746

CO<sub>2</sub> Hydrogenation: Supported Nanoparticles vs. Immobilized Catalysts, 759

**Carbon dioxide utilization (CDU)**

New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331

Conditions for the Use of CO<sub>2</sub>, 353

***p*-Carboxylatocalix[4]arene**

A Convenient Synthetic Route to Partial-Cone *p*-Carboxylatocalix[4]arenes, 516

**Cardiovascular**

Challenges and Rewards in Medicinal Chemistry Targeting Cardiovascular and Metabolic Diseases, 407

**CARISMA**

Iridium-mediated Bond Activation and Water Oxidation as an Exemplary Case of CARISMA, A European Network for the Development of Catalytic Routines for Small Molecule Activation, 316

**Catalysis**

Valorization of Renewable Carbon Resources for Chemicals, 120

Conditions for the Use of CO<sub>2</sub>, 353

Heterogenised Molecular Catalysts for the Reduction of CO<sub>2</sub> to Fuels, 435

Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597

Soft Approaches to CO<sub>2</sub> Activation, 765

**Catalyst deactivation**

CO Methanation for Synthetic Natural Gas Production, 608

**Catalyst layers**

Inkjet Printing Meets Electrochemical Energy Conversion, 284

**Catalyst stabilization**

Improving Heterogeneous Catalyst Stability for Liquid-phase Biomass Conversion and Reforming, 582

**Catalytic activation of small molecules**

Editorial: Catalytic Activation of Small Molecules, 313

**Catalytic fixed bed reactor**

Reactors for Catalytic Methanation in the Conversion of Biomass to Synthetic Natural Gas (SNG), 603

**Cathode**

Nanomaterials Meet Li-ion Batteries, 734

**CE**

Highlights of Analytical Sciences in Switzerland: Deep UV-LED Based Absorbance Detectors for Narrow-Bore HPLC and Capillary Electrophoresis, 806

**Cell biology**

Conference Report: Molecular and Chemical Mechanism in Epigenetics – Swiss Summer School 2015, July 12–17, 2015, Hotel Kurhaus, Arolla, Switzerland, 624

**3D Cell culture**

Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65

Moving 3D Cell Cultures from Bench to Practice – TEDD Annual Meeting at ZHAW Waedenswil 22 October 2015, 694

**Cellulose**

Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review, 572

**Cellulose**

Valorization of Renewable Carbon Resources for Chemicals, 120

**Cellulose nanofibers**

Polymer and Colloid Highlights: Functional Materials from Cellulose Nanofibers, 232

**Charge decomposition analysis**

The Effect of the Electronic Nature of Spectator Ligands in the C–H Bond Activation of Ethylene by Cr(III) Silicates: An *ab initio* Study, 225

**Chemical analysis**

Photoelectron Spectroscopy for Chemical Analysis, 22

**Chemical biology**

Conference Report: Molecular and Chemical Mechanism in Epigenetics – Swiss Summer School 2015, July 12–17, 2015, Hotel Kurhaus, Arolla, Switzerland, 624

**Chemical Landmark 2015**

SCNAT: Chemical Landmark 2015 – Designation of the Former Institute of Chemistry of the University of Fribourg, 812

**Chemical production**

Conference Report: 12. Freiburger Symposium 2015: Smart Solutions in the Chemical Process & Product Development – Case Studies from the Chemical Industry, 698

**Chemical research in Singapore**

Editorial: Singapore – Swiss Connections, 97

**Chemical safety**

Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494

**Chemical space**

Many Molecular Properties from One Kernel in Chemical Space, 182

**Chemicals and fuels**

Conditions for the Use of CO<sub>2</sub>, 353

**CHIMIA**

CHIMIA News, 1

Instructions to Authors 2015, 2

**Chitin**

Valorization of Renewable Carbon Resources for Chemicals, 120

***Chlamydomonas reinhardtii***

Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362

**Chromatin**

Exposure to Metals Can Be Therapeutic, 125

Conference Report: Molecular and Chemical Mechanism in Epigenetics – Swiss Summer School 2015, July 12–17, 2015, Hotel Kurhaus, Arolla, Switzerland, 624



**Chromium**

A Molecular Approach to Well-defined Metal Sites Supported on Oxides with Oxidation State and Nuclearity Control, 168

Synthesis and Structure of Hexatungstochromate(III),  $[H_3Cr^{III}W_6O_{24}]^{6-}$ , 537

**Cinchona**

Integrated One-Pot Synthesis of 1,3-Oxazinan-2-ones from Isocynoacetates and Phenyl Vinyl Selenones, 199

**Cisplatin**

Platinum(IV) Carboxylate Prodrug Complexes as Versatile Platforms for Targeted Chemotherapy, 100

**Clathrocholate complexes**

Functionalised Clathrocholate Complexes – New Building Blocks for Supramolecular Structures, 191

**Climate**

Highlights of Analytical Sciences in Switzerland: Using Multiple Geochemical Techniques to Investigate Rainfall as a Potential Source of Selenium to Soils, 547

**CO methanation**

CO Methanation for Synthetic Natural Gas Production, 608

**CO<sub>2</sub> activation**

Soft Approaches to CO<sub>2</sub> Activation, 765

**CO<sub>2</sub> capture**

Recent Advances in Carbon Capture with Metal–Organic Frameworks, 274

**CO<sub>2</sub> reduction**

Storage of Renewable Energy by Reduction of CO<sub>2</sub> with Hydrogen, 264

Surface Reactions are Crucial for Energy Storage, 269

Heterogenised Molecular Catalysts for the Reduction of CO<sub>2</sub> to Fuels, 435

Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769

**Cold molecular ions**

Forbidden Vibrational Transitions in Cold Molecular Ions: Experimental Observation and Potential Applications, 213

**Complex**

Rhenium(I)-based Double-heterostranded Helicates, 675

**Composite structure**

Nanomaterials Meet Li-ion Batteries, 734

**Computer-control of experiments**

Instrumentino: An Open-Source Software for Scientific Instruments, 172

**Concentration profiles**

Universities of Applied Sciences: Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using *in vivo* Confocal Raman Microscopy, 147

**Conducting polymer**

Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors, 41

**Consolidated bioprocessing (CBP)**

Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review, 572

**Contaminants**

Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488

**Controlled release**

What Makes Us Smell: The Biochemistry of Body Odour and the Design of New Deodorant Ingredients, 414

**Cortisone**

Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

**COST action**

Iridium-mediated Bond Activation and Water Oxidation as an Exemplary Case of CARISMA, A European Network for the Development of Catalytic Routines for Small Molecule Activation, 316

**Coulometry**

Thin Layer Samples Controlled by Dynamic Electrochemistry, 203

**Customized training**

Biotechnet Switzerland: Biotech Meets Chemistry: Roche Invests in Customized Training, 298

**Cyclin-dependent kinases (CDKs)**

Acid Mediated Ring Closing Metathesis: A Powerful Synthetic Tool Enabling the Synthesis of Clinical Stage Kinase Inhibitors, 142

**Cyclobutanone**

Enantioselective Rhodium-catalyzed C–C Bond Activation of Cyclobutanones, 187

**Data acquisition**

Instrumentino: An Open-Source Software for Scientific Instruments, 172

**Deactivation**

Improving Heterogeneous Catalyst Stability for Liquid-phase Biomass Conversion and Reforming, 582

**Deep UV-LED**

Highlights of Analytical Sciences in Switzerland: Deep UV-LED Based Absorbance Detectors for Narrow-Bore HPLC and Capillary Electrophoresis, 806

**Dehydrogenation**

Dehydrogenation of Formic Acid by Heterogeneous Catalysts, 348

**Density functional theory (DFT)**

The Effect of the Electronic Nature of Spectator Ligands in the C–H Bond Activation of Ethylene by Cr(III) Silicates: An *ab initio* Study, 225

Transition Metal Complexes of Bidentate and Tridentate Ligands: From Optoelectronic Studies to Supramolecular Assemblies, 659

**Deodorants**

What Makes Us Smell: The Biochemistry of Body Odour and the Design of New Deodorant Ingredients, 414

**Desalinator unit**

Thin Layer Samples Controlled by Dynamic Electrochemistry, 203

**Desensitization to allergies**

Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362

**Desorption**

Seasonal Solar Thermal Absorption Energy Storage Development, 784

**Diagnostic biomarkers**

Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59

**Dielectric elastomer actuators**

Polymer and Colloid Highlights: Polysiloxanes with Increased Permittivity as Artificial Muscles, 548

**Diesel particle filters**

Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Analytical and a Toxicological Challenge, 152

**Dimension increase**

Dimension Increase *via* Hierarchical Hydrogen Bonding from Simple Pincer-like Mononuclear Complexes, 670

**Directed evolution**

Evolving P450<sub>pyr</sub> Monooxygenase for Regio- and Stereoselective Hydroxylations, 136

**Dispersions**

Polymer and Colloid Highlights: Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions, 369

**DNA**

Porphyrimodified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics, 678

**DNA structure**

Exposure to Metals Can Be Therapeutic, 125

**Domino reaction**

Integrated One-Pot Synthesis of 1,3-Oxazinan-2-ones from Isocynoacetates and Phenyl Vinyl Selenones, 199

**DOTA**

Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530

**Drug development**

Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65

**Drug quantification in human blood**

Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634

**Drug toxicity**

Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494

**Duel Energy Storage & Converter**

Storage of Heat, Cold and Electricity, 777

**Dye**

Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors, 41

Molecular Engineering of Functional Materials for Energy and Opto-Electronic Applications, 253

**Edible vaccines**

Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362

**Electrical energy storage**

Redox Flow Batteries, Hydrogen and Distributed Storage, 753

Storage of Heat, Cold and Electricity, 777

**Electrocatalysis**

Electrocatalysts for the Selective Reduction of Carbon Dioxide to Useful Products, 131

Inkjet Printing Meets Electrochemical Energy Conversion, 284

Heterogenised Molecular Catalysts for the Reduction of CO<sub>2</sub> to Fuels, 435

**Electrochemical impedance spectroscopy**

Stress-induced Ageing of Lithium-Ion Batteries, 737

**Electrochemical water splitting**

Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis, 789

**Electrochemistry**

Transition Metal Complexes of Bidentate and Tridentate Ligands: From Optoelectronic Studies to Supramolecular Assemblies, 659

**Electrode engineering**

Electrode Engineering of Conversion-based Negative Electrodes for Na-ion Batteries, 729

**Electrode fabrication**

Inkjet Printing Meets Electrochemical Energy Conversion, 284

**Electrolysis**

Storing Renewable Energy in the Hydrogen Cycle, 741

**Electrolyzer**

Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769

**Electron transfer**

Photoinduced Charge Accumulation in Molecular Systems, 17

**Electrostatic spray ionization mass spectrometry**

Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique, 290

**Energy conversion**

Inkjet Printing Meets Electrochemical Energy Conversion, 284

Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769

**Energy from biomass**

Biotechnet Switzerland: ORION – A Global Approach to Waste Management, 365

**Energy research**

Editorial: Energypolis: Chemistry for Energy, 245

**Energy storage**

Artificial Photosynthesis with Semiconductor-Liquid Junctions, 30

Storage of Renewable Energy by Reduction of CO<sub>2</sub> with Hydrogen, 264

Surface Reactions are Crucial for Energy Storage, 269

Editorial: SCCER – The Swiss Competence Center for Energy – Energy Storage Research in Switzerland, 721

Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis, 789

Storing Renewable Energy in the Hydrogen Cycle, 741

**Energy Strategy 2050**

Opportunities for Switzerland to Contribute to the Production of Algal Biofuels: the Hydrothermal Pathway to Bio-Methane, 614

**Environment**

Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488

**Environmental archives**

Highlights of Analytical Sciences in Switzerland: Using Multiple Geochemical Techniques to Investigate Rainfall as a

Potential Source of Selenium to Soils, 547

**Epigenetics**

Conference Report: Molecular and Chemical Mechanism in Epigenetics – Swiss Summer School 2015, July 12–17, 2015, Hotel Kurhaus, Arolla, Switzerland, 624

**Epoxidation**

Universities of Applied Sciences: Chemical Modification of Polyhydroxyalkanoates (PHAs) for the Preparation of Hybrid Biomaterials, 627

**Eschweiler-Clarke reaction**

Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source, 345

**Ethylene polymerization**

A Molecular Approach to Well-defined Metal Sites Supported on Oxides with Oxidation State and Nuclearity Control, 168

The Effect of the Electronic Nature of Spectator Ligands in the C–H Bond Activation of Ethylene by Cr(III) Silicates: An *ab initio* Study, 225

**EUCHEMS Stereochemistry**

Conference Report: The 50th EUCHEM Conference on Stereochemistry (Bürgenstock Conference 2015), Brunnen, April 26<sup>th</sup>–May 1<sup>st</sup>, 2015, 485

**Excluded volume effect**

Mimicking the *in vivo* Environment – The Effect of Crowding on RNA and Biomacromolecular Folding and Activity, 207

**Exhaust emission**

Highlights of Analytical Sciences in Switzerland: A Fast and Reliable *in vitro* Method for Screening of Exhaust Emission Toxicity in Lung Cells, 68

**Exposure system**

Highlights of Analytical Sciences in Switzerland: A Fast and Reliable *in vitro* Method for Screening of Exhaust Emission Toxicity in Lung Cells, 68

**Falling film tube bundle**

Seasonal Solar Thermal Absorption Energy Storage Development, 784

**Fast pyrolysis**

Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597

**FCS diffusion law**

Characterization of Lipid and Cell Membrane Organization by the Fluorescence Correlation Spectroscopy Diffusion Law, 112

**Fe**

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746

**Ferromagnetic**

Polymer and Colloid Highlights: Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions, 369

**Fixation into biomass**

Conditions for the Use of CO<sub>2</sub>, 353

**Flame spray synthesis**

WO<sub>3</sub>/CeO<sub>2</sub>/TiO<sub>2</sub> Catalysts for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub>: Effect of the Synthesis Method, 220

**Flexible bisplatinum acceptor**

Self-assembly of Metallamacrocycles Employing a New Benzil-based Organometallic Bisplatinum(II) Acceptor, 541

**Flue gas**

Recent Advances in Carbon Capture with Metal–Organic Frameworks, 274

**Fluidized bed**

Reactors for Catalytic Methanation in the Conversion of Biomass to Synthetic Natural Gas (SNG), 603

**5-(Fluorenyl)-1,10-phenanthroline ligands**

Two-photon Absorption Engineering of 5-(Fluorenyl)-1,10-phenanthroline-based Ru(II) Complexes, 666

**Fluorescence correlation spectroscopy (FCS)**

Characterization of Lipid and Cell Membrane Organization by the Fluorescence Correlation Spectroscopy Diffusion Law, 112

**Food safety**

Highlights of Analytical Sciences in Switzerland: Occurrence of Natural Hepatotoxins in Herbal Teas, 231

**Forbidden transitions**

Forbidden Vibrational Transitions in Cold Molecular Ions: Experimental Observation and Potential Applications, 213

**Force field**

Modelling Water: A Lifetime Enigma, 104

**Formaldehyde**

Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source, 345

**Formic acid**

Dehydrogenation of Formic Acid by Heterogeneous Catalysts, 348

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746

**Freiburger Symposium**

Conference Report: 12. Freiburger Symposium 2015: Smart Solutions in the Chemical Process & Product Development – Case Studies from the Chemical Industry, 698

**Friction**

Polymer and Colloid Highlights: Lateral Deformability of Polymer Brushes by AFM-Based Method, 709

**Functional foams and films**

Polymer and Colloid Highlights: Functional Materials from Cellulose Nanofibers, 232

**Functional materials**

Molecular Engineering of Functional Materials for Energy and Opto-Electronic Applications, 253

**Functionalized nanoparticles in release mechanism**

Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634

**G-quadruplexes**

Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530

**Gamma ray spectrometry**

Highlights of Analytical Sciences in Switzerland: Gamma Ray Spectrometry of Sewer Sludge – A Useful Tool for the Identification of Emission Sources in a City, 301

**Gas diffusion electrode**

Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769

**Genotoxicity**

Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Analytical and a Toxicological Challenge, 152

**Geochemistry**

Highlights of Analytical Sciences in Switzerland: Using Multiple Geochemical Techniques to Investigate Rainfall as a Potential Source of Selenium to Soils, 547

**Gram-negative bacteria**

Biotechnet Switzerland: Platform for a Technological Leap in Antibiotics, 809

**Graphical user interface**

Instrumentino: An Open-Source Software for Scientific Instruments, 172

**Green chemistry**

Soft Approaches to CO<sub>2</sub> Activation, 765

**Grignard reagents**

Nitrous Oxide-dependent Iron-catalyzed Coupling Reactions of Grignard Reagents, 327

**Grubbs catalyst**

Acid Mediated Ring Closing Metathesis: A Powerful Synthetic Tool Enabling the Synthesis of Clinical Stage Kinase Inhibitors, 142

**Heavy duty vehicles**

Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Ana-

lytical and a Toxicological Challenge, 152

**Helicate**

Rhenium(I)-based Double-heterostranded Helicates, 675

**Hematite**

Universities of Applied Sciences: Effect of Experimental Parameters on Water Splitting Using a Hematite Photoanode, 807

**Herbal teas**

Highlights of Analytical Sciences in Switzerland: Occurrence of Natural Hepatotoxins in Herbal Teas, 231

**Heterogeneous catalysis**

The Role of Proton Transfer in Heterogeneous Transformations of Hydrocarbons, 321

Dehydrogenation of Formic Acid by Heterogeneous Catalysts, 348

Looking Back on 35 Years of Industrial Catalysis, 393

Heterogenised Molecular Catalysts for the Reduction of CO<sub>2</sub> to Fuels, 435

Improving Heterogeneous Catalyst Stability for Liquid-phase Biomass Conversion and Reforming, 582

CO<sub>2</sub> Hydrogenation: Supported Nanoparticles vs. Immobilized Catalysts, 759

**Hierarchical hydrogen bonding**

Dimension Increase *via* Hierarchical Hydrogen Bonding from Simple Pincer-like Mononuclear Complexes, 670

**High permittivity**

Polymer and Colloid Highlights: Polysiloxanes with Increased Permittivity as Artificial Muscles, 548

**High-temperature heat storage**

Phase Change Material Systems for High Temperature Heat Storage, 780

**High-throughput screening**

Challenges and Rewards in Medicinal Chemistry Targeting Cardiovascular and Metabolic Diseases, 407

**History of science**

A Short History of the Use of Plants as Medicines from Ancient Times, 622

**Hole conductor**

Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors, 41

**Homogeneous catalysis**

Iridium-mediated Bond Activation and Water Oxidation as an Exemplary Case of CARISMA, A European Network for the Development of Catalytic Routines for Small Molecule Activation, 316

New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331

Looking Back on 35 Years of Industrial Catalysis, 393

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746

### Hospital wastewaters

Development of an LC-MS/MS Method for the Assessment of Selected Active Pharmaceuticals and Metabolites in Wastewaters of a Swiss University Hospital, 684

### HPLC

Highlights of Analytical Sciences in Switzerland: Deep UV-LED Based Absorbance Detectors for Narrow-Bore HPLC and Capillary Electrophoresis, 806

### HPLC-MS/MS

Highlights of Analytical Sciences in Switzerland: Occurrence of Natural Hepatotoxins in Herbal Teas, 231

### Human 3D cells

Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494

### Human body odours

What Makes Us Smell: The Biochemistry of Body Odour and the Design of New Deodorant Ingredients, 414

### Hydrides

Storage of Renewable Energy by Reduction of CO<sub>2</sub> with Hydrogen, 264  
Storing Renewable Energy in the Hydrogen Cycle, 741

### Hydrogen

Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30  
Storage of Renewable Energy by Reduction of CO<sub>2</sub> with Hydrogen, 264  
Surface Reactions are Crucial for Energy Storage, 269  
Dehydrogenation of Formic Acid by Heterogeneous Catalysts, 348  
Storing Renewable Energy in the Hydrogen Cycle, 741  
Redox Flow Batteries, Hydrogen and Distributed Storage, 753  
Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis, 789

### Hydrogen bond

Triplet–Triplet Energy Transfer Study in Hydrogen Bonding Systems, 524

### Hydrogen storage

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746

### Hydrogenation

CO<sub>2</sub> Hydrogenation: Supported Nanoparticles vs. Immobilized Catalysts, 759

### Hydrolytic stability and regeneration

Recent Advances in Carbon Capture with Metal–Organic Frameworks, 274

### Hydroxylation

Evolving P450<sub>pyr</sub> Monooxygenase for Regio- and Stereoselective Hydroxylations, 136

### Imaging mass cytometry

Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637

### Immobilization

CO<sub>2</sub> Hydrogenation: Supported Nanoparticles vs. Immobilized Catalysts, 759

### Immunoaffinity electrophoresis

Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique, 290

### in vivo application

Universities of Applied Sciences: Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using *in vivo* Confocal Raman Microscopy, 147

### Industrial catalysis

Looking Back on 35 Years of Industrial Catalysis, 393

### Inkjet printing

Inkjet Printing Meets Electrochemical Energy Conversion, 284

Polymer and Colloid Highlights: Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions, 369

### Intermolecular/intramolecular TTET

Triplet–Triplet Energy Transfer Study in Hydrogen Bonding Systems, 524

### International Chemistry Olympiad

Two Bronze Medals for Switzerland at the 46<sup>th</sup> International Chemistry Olympiad in Hanoi, Vietnam, 71

### International Year of Light 2015

Editorial: Chemistry and Light: The International Year of Light, 6

### Ionic liquids

Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass, 592

### Ionophore-based membranes

Thin Layer Samples Controlled by Dynamic Electrochemistry, 203

### Iron catalysts

Nitrous Oxide-dependent Iron-catalyzed Coupling Reactions of Grignard Reagents, 327

### Isocyanacetates

Integrated One-Pot Synthesis of 1,3-Oxazinan-2-ones from Isocyanacetates and Phenyl Vinyl Selenones, 199

### Isopyrazam

Sedaxane, Isopyrazam and Solatenol<sup>TM</sup>: Novel Broad-spectrum Fungicides Inhibiting Succinate Dehydrogenase (SDH) – Synthesis Challenges and Biological Aspects, 425

### Janus kinase 2 (JAK2)

Acid Mediated Ring Closing Metathesis: A Powerful Synthetic Tool Enabling the Synthesis of Clinical Stage Kinase Inhibitors, 142

### Kernel Ridge Regression

Many Molecular Properties from One Kernel in Chemical Space, 182

### Kinetic monitoring

Universities of Applied Sciences: Chemical Modification of Polyhydroxyalkanoates (PHAs) for the Preparation of Hybrid Biomaterials, 627

### Klebsiella pneumoniae

Biotechnet Switzerland: Platform for a Technological Leap in Antibiotics, 809

### Laboratory medicine

Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59

### Lakes

Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488

### Laser ablation ICPMS

Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637

### Latent heat of fusion

Phase Change Material Systems for High Temperature Heat Storage, 780

### Li-ion batteries

Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries, 724  
Nanomaterials Meet Li-ion Batteries, 734  
Stress-induced Ageing of Lithium-Ion Batteries, 737

### Life Sciences

Universities of Applied Sciences: PAT at the Universities of Applied Sciences, 482

### Light intensity

Universities of Applied Sciences: Effect of Experimental Parameters on Water Splitting Using a Hematite Photoanode, 807

### Light-activated prodrugs

Lightening up Ruthenium Complexes to Fight Cancer? 176

### Lignin

Valorization of Renewable Carbon Resources for Chemicals, 120  
Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597

### Lipid raft model

Characterization of Lipid and Cell Membrane Organization by the Fluores-

- cence Correlation Spectroscopy Diffusion Law, 112
- Liquid chromatography**  
Development of an LC-MS/MS Method for the Assessment of Selected Active Pharmaceuticals and Metabolites in Wastewaters of a Swiss University Hospital, 684
- Luminescence**  
Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530  
Two-photon Absorption Engineering of 5-(Fluorenyl)-1,10-phenanthroline-based Ru(II) Complexes, 666
- 3D Lung cell model**  
Highlights of Analytical Sciences in Switzerland: A Fast and Reliable *in vitro* Method for Screening of Exhaust Emission Toxicity in Lung Cells, 68
- Machine learning**  
Many Molecular Properties from One Kernel in Chemical Space, 182
- Magnetic asymmetry**  
Resolving the Magnetic Asymmetry of the Inner Space in Self-assembled Dimeric Capsules Based on Tetraurea-calix[4]pyrrole Components, 652
- Mass spectrometry**  
Universities of Applied Sciences: Novel Analytical Workflow for Comprehensive Non-targeted Phytochemical Metabolic Profiling, 294  
Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494  
Development of an LC-MS/MS Method for the Assessment of Selected Active Pharmaceuticals and Metabolites in Wastewaters of a Swiss University Hospital, 684
- Materials genome**  
Screening Materials Relevant for Energy Technologies, 248
- Mechanism**  
Electrocatalysts for the Selective Reduction of Carbon Dioxide to Useful Products, 131
- Medicinal chemistry**  
Challenges and Rewards in Medicinal Chemistry Targeting Cardiovascular and Metabolic Diseases, 407
- Medicinal inorganic chemistry**  
Metal Complexes and Medicine: A Successful Combination, 442
- Medicinal organometallic chemistry**  
Metal Complexes and Medicine: A Successful Combination, 442
- Membrane dynamics**  
Characterization of Lipid and Cell Membrane Organization by the Fluorescence Correlation Spectroscopy Diffusion Law, 112
- Membrane organization**  
Characterization of Lipid and Cell Membrane Organization by the Fluorescence Correlation Spectroscopy Diffusion Law, 112
- Mesoporous oxide**  
Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors, 41
- Metabolic**  
Challenges and Rewards in Medicinal Chemistry Targeting Cardiovascular and Metabolic Diseases, 407
- Metabolic profiling**  
Universities of Applied Sciences: Novel Analytical Workflow for Comprehensive Non-targeted Phytochemical Metabolic Profiling, 294
- Metal-based drug**  
Exposure to Metals Can Be Therapeutic, 125
- Metal-free**  
Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source, 345
- Metal-organic frameworks (MOF)**  
Screening Materials Relevant for Energy Technologies, 248  
Recent Advances in Carbon Capture with Metal-Organic Frameworks, 274
- Metallamacrocycle**  
Self-assembly of Metallamacrocycles Employing a New Benzil-based Organometallic Bisplatinum(II) Acceptor, 541
- Metalloligands**  
Functionalised Clathrochelate Complexes – New Building Blocks for Supramolecular Structures, 191
- Metathesis**  
Metathesis by Molybdenum and Tungsten Catalysts, 388
- Methanation**  
Reactors for Catalytic Methanation in the Conversion of Biomass to Synthetic Natural Gas (SNG), 603
- Methane storage**  
Screening Materials Relevant for Energy Technologies, 248
- N-methylation**  
Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source, 345
- (S)-Metolachlor**  
Looking Back on 35 Years of Industrial Catalysis, 393
- Microalgae**  
Opportunities for Switzerland to Contribute to the Production of Algal Biofuels: the Hydrothermal Pathway to Bio-Methane, 614
- Microalgae-based food and feed products**  
Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362
- Microbial fuel cell**  
Biotechnet Switzerland: Recovering Valuable Phosphates: Chemical Biotechnology as a Problem Solver for the Environment, 296
- Microscopy**  
Stress-induced Ageing of Lithium-Ion Batteries, 737
- Mid-IR spectroscopy**  
Highlights of Analytical Sciences in Switzerland: Multi-Component Trace Gas Spectroscopy Using Dual-Wavelength Quantum Cascade Lasers, 708
- MOF synthesis**  
Recent Advances in Carbon Capture with Metal-Organic Frameworks, 274
- Molecular algae biotechnology**  
Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362
- Molecular approach**  
A Molecular Approach to Well-defined Metal Sites Supported on Oxides with Oxidation State and Nuclearity Control, 168
- Molecular crowding**  
Mimicking the *in vivo* Environment – The Effect of Crowding on RNA and Biomacromolecular Folding and Activity, 207
- Molecular design**  
Challenges and Rewards in Medicinal Chemistry Targeting Cardiovascular and Metabolic Diseases, 407
- Molecular dynamics**  
Modelling Water: A Lifetime Enigma, 104
- Molecular encapsulation**  
Resolving the Magnetic Asymmetry of the Inner Space in Self-assembled Dimeric Capsules Based on Tetraurea-calix[4]pyrrole Components, 652
- Molecular engineering**  
Molecular Engineering of Functional Materials for Energy and Opto-Electronic Applications, 253
- Molecular glue**  
Porphyrin-modified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics, 678
- Molecular properties**  
Many Molecular Properties from One Kernel in Chemical Space, 182
- Molybdenum**  
Metathesis by Molybdenum and Tungsten Catalysts, 388

**Multidrug-resistant strains**

Biotechnet Switzerland: Platform for a Technological Leap in Antibiotics, 809

**Multimode heat transfer**

Phase Change Material Systems for High Temperature Heat Storage, 780

**Multiplexed tissue analysis**

Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637

**Muscle-tendon disease**

Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65

**Na-ion batteries**

Electrode Engineering of Conversion-based Negative Electrodes for Na-ion Batteries, 729

Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries, 724

**Nano-architectonics**

Porphyrimodified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics, 678

**Nano-LiCoO<sub>2</sub>**

Nanomaterials Meet Li-ion Batteries, 734

**Nano-LiMnO<sub>2</sub>**

Nanomaterials Meet Li-ion Batteries, 734

**Nanocrystals**

Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries, 724

**Nanomaterials**

Scientific Basis for Regulatory Decision-Making of Nanomaterials: Report on the Workshop, 20–21 January 2014, Center of Applied Ecotoxicology, Dübendorf, 52

**Nanoparticles**

Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30

**Nanoporous materials**

Screening Materials Relevant for Energy Technologies, 248

**Nanosphere**

Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes, 196

**Natural products**

Universities of Applied Sciences: Novel Analytical Workflow for Comprehensive Non-targeted Phytochemical Metabolic Profiling, 294

**Negative electrode**

Electrode Engineering of Conversion-based Negative Electrodes for Na-ion Batteries, 729

**Neutral photo-Fenton**

Fe vs. TiO<sub>2</sub> Photo-assisted Processes for Enhancing the Solar Inactivation of Bacteria in Water, 7

**NH<sub>3</sub>**

WO<sub>3</sub>/CeO<sub>2</sub>/TiO<sub>2</sub> Catalysts for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub>: Effect of the Synthesis Method, 220

**Ni/Al<sub>2</sub>O<sub>3</sub>**

CO Methanation for Synthetic Natural Gas Production, 608

**NIR emitter**

Transition Metal Complexes of Bidentate and Tridentate Ligands: From Optoelectronic Studies to Supramolecular Assemblies, 659

**Nitro-PAHs**

Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Analytical and a Toxicological Challenge, 152

**Nitrogen oxides**

Highlights of Analytical Sciences in Switzerland: Multi-Component Trace Gas Spectroscopy Using Dual-Wavelength Quantum Cascade Lasers, 708

**Nitrous oxide**

Nitrous Oxide-dependent Iron-catalyzed Coupling Reactions of Grignard Reagents, 327

**Nobel Prize**

Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

**NO<sub>x</sub> reduction**

WO<sub>3</sub>/CeO<sub>2</sub>/TiO<sub>2</sub> Catalysts for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub>: Effect of the Synthesis Method, 220

**Nuclear magnetic resonance**

Universities of Applied Sciences: Chemical Modification of Polyhydroxyalkanoates (PHAs) for the Preparation of Hybrid Biomaterials, 627

**Nucleosome**

Exposure to Metals Can Be Therapeutic, 125

***o*-Biscyclopropylaniline**

Sedaxane, Isopyrazam and Solatenol™: Novel Broad-spectrum Fungicides Inhibiting Succinate Dehydrogenase (SDH) – Synthesis Challenges and Biological Aspects, 425

**Oceans**

Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488

**Omics technologies**

Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59

**Optical sensor**

Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes, 196

**Organic synthesis**

Metathesis by Molybdenum and Tungsten Catalysts, 388

**Oxaliplatin**

Platinum(IV) Carboxylate Prodrug Complexes as Versatile Platforms for Targeted Chemotherapy, 100

**Oxidative MCR**

Integrated One-Pot Synthesis of 1,3-Oxazinan-2-ones from Isocyanacetates and Phenyl Vinyl Selenones, 199

**Oxide support**

A Molecular Approach to Well-defined Metal Sites Supported on Oxides with Oxidation State and Nuclearity Control, 168

**Oxygen evolution reaction**

Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis, 789

**P450 monooxygenase**

Evolving P450pyr Monooxygenase for Regio- and Stereoselective Hydroxylations, 136

**Packed bed**

Experimental and Numerical Investigation of Combined Sensible/Latent Thermal Energy Storage for High-Temperature Applications, 799

**PAHs**

Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Analytical and a Toxicological Challenge, 152

**Palladium**

Functionalised Clathrochelate Complexes – New Building Blocks for Supramolecular Structures, 191

**Paper-based microfluidic devices**

Thin Layer Samples Controlled by Dynamic Electrochemistry, 203

**PAT**

Universities of Applied Sciences: PAT at the Universities of Applied Sciences, 482

**Pathogenesis of tuberculosis**

Biotechnet Switzerland: Platform for a Technological Leap in Antibiotics, 809

**PCC Basel**

Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

**PCDD/Fs**

Highlights of Analytical Sciences in Switzerland: Benefit-Risk Assessment of Diesel Particle Filters (DPFs): An Ana-

- lytical and a Toxicological Challenge, 152
- Perovskite**  
Molecular Engineering of Functional Materials for Energy and Opto-Electronic Applications, 253
- Personalized medicine**  
Biotechnet Switzerland: 7th Waedenswil Day of Chemistry – Personalized Medicine: Full Speed Ahead! 491
- Pharmaceuticals**  
Development of an LC-MS/MS Method for the Assessment of Selected Active Pharmaceuticals and Metabolites in Wastewaters of a Swiss University Hospital, 684
- Phase change material**  
Experimental and Numerical Investigation of Combined Sensible/Latent Thermal Energy Storage for High-Temperature Applications, 799  
Phase Change Material Systems for High Temperature Heat Storage, 780
- Phillips catalyst**  
The Effect of the Electronic Nature of Spectator Ligands in the C–H Bond Activation of Ethylene by Cr(III) Silicates: An *ab initio* Study, 225
- Phosphate recovery**  
Biotechnet Switzerland: Recovering Valuable Phosphates: Chemical Biotechnology as a Problem Solver for the Environment, 296
- Phosphate remobilization**  
Biotechnet Switzerland: Recovering Valuable Phosphates: Chemical Biotechnology as a Problem Solver for the Environment, 296
- Phosphine ligands**  
Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 746
- Photoactivated chemotherapy**  
Lightening up Ruthenium Complexes to Fight Cancer? 176
- Photocatalysis**  
Heterogenised Molecular Catalysts for the Reduction of CO<sub>2</sub> to Fuels, 435
- Photochemistry**  
Photoinduced Charge Accumulation in Molecular Systems, 17  
Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets, 217  
Transition Metal Complexes of Bidentate and Tridentate Ligands: From Optoelectronic Studies to Supramolecular Assemblies, 659
- Photodynamic therapy**  
Light in Medicine: The Interplay of Chemistry and Light, 10  
Lightening up Ruthenium Complexes to Fight Cancer? 176
- Photoelectrochemical cell**  
Universities of Applied Sciences: Effect of Experimental Parameters on Water Splitting Using a Hematite Photoanode, 807
- Photoelectrochemical water splitting**  
Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30
- Photoelectron spectroscopy**  
Photoelectron Spectroscopy for Chemical Analysis, 22
- Physicochemical properties of exhaust**  
Highlights of Analytical Sciences in Switzerland: A Fast and Reliable *in vitro* Method for Screening of Exhaust Emission Toxicity in Lung Cells, 68
- Picket-fence model**  
Characterization of Lipid and Cell Membrane Organization by the Fluorescence Correlation Spectroscopy Diffusion Law, 112
- Plants**  
A Short History of the Use of Plants as Medicines from Ancient Times, 622
- Platinum(IV) prodrugs**  
Platinum(IV) Carboxylate Prodrug Complexes as Versatile Platforms for Targeted Chemotherapy, 100
- Point-of-care devices**  
Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59
- Point-of-Care Therapeutic Drug Monitoring devices**  
Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634
- Polarizable**  
Modelling Water: A Lifetime Enigma, 104
- Polyhydroxyalkanoates**  
Universities of Applied Sciences: Chemical Modification of Polyhydroxyalkanoates (PHAs) for the Preparation of Hybrid Biomaterials, 627
- Polymer brushes**  
Polymer and Colloid Highlights: Lateral Deformability of Polymer Brushes by AFM-Based Method, 709
- Polymer chemistry**  
Metathesis by Molybdenum and Tungsten Catalysts, 388
- Polymers**  
Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets, 217
- Polyoxometalates**  
Synthesis and Structure of Hexatungstochromate(III), [H<sub>3</sub>Cr<sup>III</sup>W<sub>6</sub>O<sub>24</sub>]<sup>6-</sup>, 537
- Potential**  
Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes, 196
- Potential energy surface**  
Modelling Water: A Lifetime Enigma, 104
- Power-to-Gas**  
Reactors for Catalytic Methanation in the Conversion of Biomass to Synthetic Natural Gas (SNG), 603
- Power-to-gas/liquid**  
Electrochemical CO<sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications, 769
- Power-to-Heat**  
Storage of Heat, Cold and Electricity, 777
- Pre-irradiation grafted copolymer electrolyte**  
Polymer and Colloid Highlights: Structural Studies of Radiation-grafted Copolymer Proton Exchange Membranes, 69
- Precision spectroscopy**  
Forbidden Vibrational Transitions in Cold Molecular Ions: Experimental Observation and Potential Applications, 213
- Process Analytical Technologies**  
Universities of Applied Sciences: PAT at the Universities of Applied Sciences, 482
- Process engineering**  
Improving Heterogeneous Catalyst Stability for Liquid-phase Biomass Conversion and Reforming, 582
- Prophyrin**  
Porphyrin-modified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics, 678
- Protein kinases in cancer therapy**  
Biotechnet Switzerland: Where Experts Meet to Exchange Knowledge: Biotechnet's Summer School on Advanced Biotechnology, 634
- Protein networks**  
Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494
- Proteomics**  
Highlights of Analytical Sciences in Switzerland: Mass Spectrometric Proteome Analysis of Small Three-Dimensional Microtissues Allows for the Quantitative Description of Toxic Effects of Drugs, 494
- Proton exchange membrane**  
Polymer and Colloid Highlights: Structural Studies of Radiation-grafted Copolymer Proton Exchange Membranes, 69

**Proton transfer**

Photoinduced Charge Accumulation in Molecular Systems, 17

The Role of Proton Transfer in Heterogeneous Transformations of Hydrocarbons, 321

**Purification technologies**

Polymer and Colloid Highlights: Functional Materials from Cellulose Nanofibers, 232

**Purpose-made instruments**

Instrumentino: An Open-Source Software for Scientific Instruments, 172

**Pyrene**

Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530

**Pyrrolizidine alkaloids**

Highlights of Analytical Sciences in Switzerland: Occurrence of Natural Hepatotoxins in Herbal Teas, 231

**Python**

Instrumentino: An Open-Source Software for Scientific Instruments, 172

**Quantum cascade lasers**

Highlights of Analytical Sciences in Switzerland: Multi-Component Trace Gas Spectroscopy Using Dual-Wavelength Quantum Cascade Lasers, 708

**Quantum chemistry**

Many Molecular Properties from One Kernel in Chemical Space, 182

**Radicals**

Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597

**Radiocarbon**

Highlights of Analytical Sciences in Switzerland: What are the Sources of Aerosols during Haze Events in China? 368

**Radiopharmaceuticals**

Highlights of Analytical Sciences in Switzerland: Gamma Ray Spectrometry of Sewer Sludge – A Useful Tool for the Identification of Emission Sources in a City, 301

**Raman spectroscopy**

Universities of Applied Sciences: Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using *in vivo* Confocal Raman Microscopy, 147

**Reaction mechanism**

CO Methanation for Synthetic Natural Gas Production, 608

**Reactive oxygen species**

Light in Medicine: The Interplay of Chemistry and Light, 10

**Recombinant protein vaccines**

Biotechnet Switzerland: One Step ahead in Cell Cultivation – International Advanced Training Course at ZHAW Wädenswil, 631

**Reconstructed human epidermis**

Universities of Applied Sciences: Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using *in vivo* Confocal Raman Microscopy, 147

**Redox flow batteries**

Redox Flow Batteries, Hydrogen and Distributed Storage, 753

**Regulation of nanomaterials**

Scientific Basis for Regulatory Decision-Making of Nanomaterials: Report on the Workshop, 20–21 January 2014, Center of Applied Ecotoxicology, Dübendorf, 52

**Reichstein, Taddeus**

Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

**Remediation**

Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488

**Renewable chemicals**

Valorization of Renewable Carbon Resources for Chemicals, 120

**Renewable energy**

Biotechnet Switzerland: ORION – A Global Approach to Waste Management, 365

**Renewable feedstocks**

Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass, 592

**Reversible heat pump**

Storage of Heat, Cold and Electricity, 777

**Rhenium**

Rhenium(I)-based Double-heterostructured Helicates, 675

**Rhodium**

Enantioselective Rhodium-catalyzed C–C Bond Activation of Cyclobutanones, 187

**Rhodium-phosphine catalyst**

Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst, 339

**Ring-closing metathesis (RCM)**

Acid Mediated Ring Closing Metathesis: A Powerful Synthetic Tool Enabling the Synthesis of Clinical Stage Kinase Inhibitors, 142

**Risk assessment**

Scientific Basis for Regulatory Decision-Making of Nanomaterials: Report on the Workshop, 20–21 January 2014, Center of Applied Ecotoxicology, Dübendorf, 52

Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488

**RNA**

Mimicking the *in vivo* Environment – The Effect of Crowding on RNA and Biomacromolecular Folding and Activity, 207

**Ruthenium**

Lightening up Ruthenium Complexes to Fight Cancer? 176

New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331

Hydrogen Storage in the Carbon Dioxide – Formic Acid Cycle, 748

**Ruthenium(II) complexes**

Two-photon Absorption Engineering of 5-(Fluorenyl)-1,10-phenanthroline-based Ru(II) Complexes, 666

**Scanning electrochemical microscopy**

Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique, 290

**SCCER BIOSWEET**

Editorial: SCCER BIOSWEET – The Swiss Competence Center for Energy Research on Bioenergy, 569

**SCCER Heat & Electricity Storage**

Editorial: SCCER – The Swiss Competence Center for Energy – Energy Storage Research in Switzerland, 721

**Schistosomiasis**

Metal Complexes and Medicine: A Successful Combination, 442

**SCNAT «Platform Chemistry»**

SCNAT: New President, New Board Member and New Chief Science Officer of the «Platform Chemistry», 57

SCNAT: 2015 SCNAT/SCS Chemistry Travel Award, 58

SCNAT: The 8th Young Faculty Meeting – An Active Crowd Attuned to Modern Challenges, 475

SCNAT: 2015 Chemistry Travel Award by SCNAT, SCS and SSFEC, 478

SCNAT: Chemical Landmark 2015 – Designation of the Former Institute of Chemistry of the University of Fribourg, 812



- SCR**  
WO<sub>3</sub>/CeO<sub>2</sub>/TiO<sub>2</sub> Catalysts for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub>: Effect of the Synthesis Method, 220
- SCS Foundation**  
Alfred Werner Fund, Master's Student Scholarships, 496
- SDHI**  
Sedaxane, Isopyrazam and Solatenol™: Novel Broad-spectrum Fungicides Inhibiting Succinate Dehydrogenase (SDH) – Synthesis Challenges and Biological Aspects, 425
- Seasonal solar thermal energy storage**  
Seasonal Solar Thermal Absorption Energy Storage Development, 784
- Sedaxane**  
Sedaxane, Isopyrazam and Solatenol™: Novel Broad-spectrum Fungicides Inhibiting Succinate Dehydrogenase (SDH) – Synthesis Challenges and Biological Aspects, 425
- Sediments**  
Conference Report: International Conference on Contaminated Sediments – ContaSed 2015, 8–13 March 2015, Monte Verità, Ascona, Switzerland, 488
- Selectivity**  
Electrocatalysts for the Selective Reduction of Carbon Dioxide to Useful Products, 131  
Recent Advances in Carbon Capture with Metal–Organic Frameworks, 274  
Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597
- Selenium**  
Highlights of Analytical Sciences in Switzerland: Using Multiple Geochemical Techniques to Investigate Rainfall as a Potential Source of Selenium to Soils, 547
- Selenones**  
Integrated One-Pot Synthesis of 1,3-Oxazinan-2-ones from Isocyanacetates and Phenyl Vinyl Selenones, 199
- Self-assembly**  
Functionalised Clathrochelate Complexes – New Building Blocks for Supramolecular Structures, 191  
Self-assembly of Metallamacrocycles Employing a New Benzil-based Organometallic Bisplatinum(II) Acceptor, 541
- Self-association**  
UV-visible Absorption Study of the Self-association of Non-ionic Chromonic Triphenylenes TP6EOnM (n = 2, 3, 4) in Dilute Aqueous Solutions: Impact of Chain Length on Aggregation, 520
- Semiconductor**  
Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30
- Sewage sludge**  
Biotechnet Switzerland: Recovering Valuable Phosphates: Chemical Biotechnology as a Problem Solver for the Environment, 296  
Highlights of Analytical Sciences in Switzerland: Gamma Ray Spectrometry of Sewer Sludge – A Useful Tool for the Identification of Emission Sources in a City, 301
- SI-ATRP**  
Polymer and Colloid Highlights: Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions, 369
- Silicones**  
Polymer and Colloid Highlights: Polysiloxanes with Increased Permittivity as Artificial Muscles, 548
- Simulation**  
Experimental and Numerical Investigation of Combined Sensible/Latent Thermal Energy Storage for High-Temperature Applications, 799
- Single-molecule Förster resonance energy transfer (smFRET)**  
Mimicking the *in vivo* Environment – The Effect of Crowding on RNA and Biomacromolecular Folding and Activity, 207
- Skin penetration**  
Universities of Applied Sciences: Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using *in vivo* Confocal Raman Microscopy, 147
- Small-angle neutron scattering**  
Polymer and Colloid Highlights: Structural Studies of Radiation-grafted Copolymer Proton Exchange Membranes, 69
- Small-angle X-ray scattering**  
Polymer and Colloid Highlights: Structural Studies of Radiation-grafted Copolymer Proton Exchange Membranes, 69
- Sn particle**  
Electrode Engineering of Conversion-based Negative Electrodes for Na-ion Batteries, 729
- Sodium formate**  
Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst, 339
- Solar cell**  
Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors, 41
- Solar disinfection**  
Fe vs. TiO<sub>2</sub> Photo-assisted Processes for Enhancing the Solar Inactivation of Bacteria in Water, 7
- Solar fuel**  
Photoinduced Charge Accumulation in Molecular Systems, 17  
Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30
- Solatenol™**  
Sedaxane, Isopyrazam and Solatenol™: Novel Broad-spectrum Fungicides Inhibiting Succinate Dehydrogenase (SDH) – Synthesis Challenges and Biological Aspects, 425
- Solid-state chemistry**  
Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets, 217
- Source apportionment**  
Highlights of Analytical Sciences in Switzerland: What are the Sources of Aerosols during Haze Events in China? 368
- Specialized well plate**  
Biotechnet Switzerland: 3D Bioprinted Muscle and Tendon Tissues for Drug Development, 65
- Specific microarray detection**  
Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59
- Spectroscopy**  
Surface Reactions are Crucial for Energy Storage, 269
- Stability**  
Polymer and Colloid Highlights: Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions, 369
- Statistical data analysis**  
Universities of Applied Sciences: Novel Analytical Workflow for Comprehensive Non-targeted Phytochemical Metabolic Profiling, 294
- Stress cycles**  
Stress-induced Ageing of Lithium-Ion Batteries, 737
- Structural characterization**  
Universities of Applied Sciences: Novel Analytical Workflow for Comprehensive Non-targeted Phytochemical Metabolic Profiling, 294
- Structure**  
Conference Report: Molecular and Chemical Mechanism in Epigenetics – Swiss Summer School 2015, July 12–17, 2015, Hotel Kurhaus, Arolla, Switzerland, 624
- Struvite fertilizer**  
Biotechnet Switzerland: Recovering Valuable Phosphates: Chemical Biotechnology as a Problem Solver for the Environment, 296
- Subcellular resolution**  
Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637

**Sugar platform**

Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review, 572

**Supercritical water gasification**

Opportunities for Switzerland to Contribute to the Production of Algal Biofuels: the Hydrothermal Pathway to Bio-Methane, 614

**Supramolecular assemblies**

A Convenient Synthetic Route to Partial-Cone *p*-Carboxylatocalix[4]arenes, 516

Triplet–Triplet Energy Transfer Study in Hydrogen Bonding Systems, 524

Porphyrin-modified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics, 678

**Supramolecular chemistry**

Editorial: Supramolecular Chemistry, 513  
Editorial: Supramolecular Chemistry Part 2, 649

Transition Metal Complexes of Bidentate and Tridentate Ligands: From Optoelectronic Studies to Supramolecular Assemblies, 659

**Supramolecular chirality**

Resolving the Magnetic Asymmetry of the Inner Space in Self-assembled Dimeric Capsules Based on Tetraurea-calix[4]pyrrole Components, 652

**Supramolecule**

Rhenium(I)-based Double-heterostranded Helicates, 675

**Surface organometallic chemistry**

A Molecular Approach to Well-defined Metal Sites Supported on Oxides with Oxidation State and Nuclearity Control, 168

**Surface reactions**

Surface Reactions are Crucial for Energy Storage, 269

**Surface-initiated polymerization**

Polymer and Colloid Highlights: Lateral Deformability of Polymer Brushes by AFM-Based Method, 709

**Sustainable chemistry**

Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass, 592

Soft Approaches to CO<sub>2</sub> Activation, 765

**Swiss Chemical Society**

Annual Report 2014, 73

KGF-SCS Industrial Science Awards, 234

Editorial: SCS Laureates and Awards & Fall Meeting 2015, 385

Review SCS Fall Meeting 2015, 639

SCS Prize Winners 2016, 816

**Synthesis**

Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries, 724

**Synthetic fuels**

Storage of Renewable Energy by Reduction of CO<sub>2</sub> with Hydrogen, 264

**Synthetic hydrocarbons**

Storing Renewable Energy in the Hydrogen Cycle, 741

**Synthetic microbial consortium**

Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review, 572

**Synthetic natural gas (SNG)**

Reactors for Catalytic Methanation in the Conversion of Biomass to Synthetic Natural Gas (SNG), 603

CO Methanation for Synthetic Natural Gas Production, 608

Opportunities for Switzerland to Contribute to the Production of Algal Biofuels: the Hydrothermal Pathway to Bio-Methane, 614

**Targeted chemotherapy**

Platinum(IV) Carboxylate Prodrug Complexes as Versatile Platforms for Targeted Chemotherapy, 100

**TASQ**

Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530

**Technology trends**

Conference Report: 12. Freiburger Symposium 2015: Smart Solutions in the Chemical Process & Product Development – Case Studies from the Chemical Industry, 698

**Temperature**

Universities of Applied Sciences: Effect of Experimental Parameters on Water Splitting Using a Hematite Photoanode, 807

**Terbium**

Synthetic G-Quartets as Versatile Nanotools for the Luminescent Detection of G-Quadruplexes, 530

**Terrestrial, airborne and lichen algae**

Biotechnet Switzerland: The Management Centre Innsbruck – Keeping one step ahead with algae innovation, 362

**Therapeutic drug monitoring**

Conference Report: Early Diagnosis – The Value of Knowledge: The 2014 Olten Meeting, 59

**Thermal energy storage**

Experimental and Numerical Investigation of Combined Sensible/Latent Thermal Energy Storage for High-Temperature Applications, 799

Phase Change Material Systems for High Temperature Heat Storage, 780

**Thermochemical heat storage**

Seasonal Solar Thermal Absorption Energy Storage Development, 784

**Thermocline**

Experimental and Numerical Investigation of Combined Sensible/Latent Thermal Energy Storage for High-Temperature Applications, 799

**Thin films**

Artificial Photosynthesis with Semiconductor–Liquid Junctions, 30

**Thin layer sample**

Thin Layer Samples Controlled by Dynamic Electrochemistry, 203

**TiO<sub>2</sub> photo-catalysis**

Fe vs. TiO<sub>2</sub> Photo-assisted Processes for Enhancing the Solar Inactivation of Bacteria in Water, 7

**Tissue Engineering for Drug Development and Substance Testing (TEDD)**

Biotechnet Switzerland: 7th Waedenswil Day of Chemistry – Personalized Medicine: Full Speed Ahead!, 491

Biotechnet Switzerland: A Network Sets Things in Motion: TEDD Celebrates its 5th Anniversary, 690

Biotechnet Switzerland: Moving 3D Cell Cultures from Bench to Practice - TEDD Annual Meeting at ZHAW Waedenswil 22 October 2015, 694

**TP6EO2M**

UV-visible Absorption Study of the Self-association of Non-ionic Chromonic Triphenylenes TP6EO<sub>n</sub>M (n = 2, 3, 4) in Dilute Aqueous Solutions: Impact of Chain Length on Aggregation, 520

**Trace element distribution**

Highlights of Analytical Sciences in Switzerland: Using Multiple Geochemical Techniques to Investigate Rainfall as a Potential Source of Selenium to Soils, 547

**Trace gas analysis**

Highlights of Analytical Sciences in Switzerland: Multi-Component Trace Gas Spectroscopy Using Dual-Wavelength Quantum Cascade Lasers, 708

**Traditional medicine**

A Short History of the Use of Plants as Medicines from Ancient Times, 622

**Transfer hydrogenation**

Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst, 339

**Transient absorption**

Photoinduced Charge Accumulation in Molecular Systems, 17

**Triphenylene**

UV-visible Absorption Study of the Self-association of Non-ionic Chromonic Triphenylenes TP6EO<sub>n</sub>M (n = 2, 3, 4) in Dilute Aqueous Solutions: Impact of Chain Length on Aggregation, 520

**Tripfos**

New Wind in Old Sails: Novel Applications of Tripfos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation, 331

**Troger's base**

Rhenium(I)-based Double-heterostranded Helicates, 675

**Tumor cell heterogeneity**

Highlights of Analytical Sciences in Switzerland: Laser Ablation ICP-MS for Single-Cell-based Tissue Imaging, 637

**Tungsten catalysis**

Metathesis by Molybdenum and Tungsten Catalysts, 388

**Two-dimensional materials**

Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets, 217

**Two-photon absorption**

Two-photon Absorption Engineering of 5-(Fluorenyl)-1,10-phenanthroline-based Ru(II) Complexes, 666

**UV photodiode**

Highlights of Analytical Sciences in Switzerland: Deep UV-LED Based Absorbance Detectors for Narrow-Bore HPLC and Capillary Electrophoresis, 806

**UV-visible absorption**

UV-visible Absorption Study of the Self-association of Non-ionic Chromonic Triphenylenes TP6EOnM ( $n = 2, 3, 4$ ) in Dilute Aqueous Solutions: Impact of Chain Length on Aggregation, 520

**Valinomycin**

Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes, 196

**Valorization of waste**

Biotechnet Switzerland: ORION – A Global Approach to Waste Management, 365

**VGCF**

Electrode Engineering of Conversion-based Negative Electrodes for Na-ion Batteries, 729

**Vibrational spectroscopy**

Forbidden Vibrational Transitions in Cold Molecular Ions: Experimental Observation and Potential Applications, 213

**Vitamin C**

Conference Report: Basel Chemistry Symposium 2014: In Memory of Prof. T. Reichstein, 63

**Voltage sensitive dye**

Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes, 196

**Water**

Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst, 339

**Water models**

Modelling Water: A Lifetime Enigma, 104

**Water splitting**

Universities of Applied Sciences: Effect of Experimental Parameters on Water Splitting Using a Hematite Photoanode, 807

**Wet impregnation**

$\text{WO}_3/\text{CeO}_2/\text{TiO}_2$  Catalysts for Selective Catalytic Reduction of  $\text{NO}_x$  by  $\text{NH}_3$ : Effect of the Synthesis Method, 220

**Wound healing**

Light in Medicine: The Interplay of Chemistry and Light, 10

**X-ray crystallography**

Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets, 217

**XRD**

Synthesis and Structure of Hexatungstochromate(III),  $[\text{H}_3\text{Cr}^{\text{III}}\text{W}_6\text{O}_{24}]^{6-}$ , 537

**Young Faculty Meeting**

SCNAT: The 8th Young Faculty Meeting – An Active Crowd Attuned to Modern Challenges, 475

**Zeolite catalysis**

Chemicals from Lignin by Catalytic Fast Pyrolysis, from Product Control to Reaction Mechanism, 597

**Zhan-1B catalyst**

Acid Mediated Ring Closing Metathesis: A Powerful Synthetic Tool Enabling the Synthesis of Clinical Stage Kinase Inhibitors, 142