

Annual Index 2015

Annual Keyword Index

<i>Ab initio</i> calculations	619	Carbon materials	1423
Acetylacetone	1109	Carbonization	1423
Acetylcholinesterase	40	Carbonyls	588, 1104
Acid dissociation constant	40, 619	Catalysis	752
Activation energy	1109	Catalysts	309, 451, 744, 843, 1032, 1044, 1057, 1175, 1192, 1198
Activators	1394		
Adsorption	309, 324, 459	Catecholase activity	170
Agarose	734	Cavitation energy	179
Åkermanite	1394	Ceria	843
Aldol condensation	451	Ceria-zirconia	843
Alumina	324, 1175	Cerium	744
Aluminium	872, 1198, 1446	Chelates	324
Amino acids	1206	Cheletropic enhancement	1446
4-Aminobenzoate	867	Chemical oscillations	1109
6-Aminopenicillanic acid	619	Chloramine-B	484
Amoxicillin	1085	Chlorides	596
Analytical chemistry	1051	Chlorine dioxide	1109
Anion complexes	596	Chromium	1192
Anion receptor	1039	Chromium oxide	1215
Anticancer activity	170	Chromotropism	867
Apparent activation energy	1109	Cinnamaldehyde	309
Ascorbic acid	187	Circular dichroism	1017
Azo dyes	627	CL-20	858
Band gap	9, 1026	Cloud point	345
Benzoxanthenes	1044	Cloud point extraction	627, 1409
Bidentate phosphines	752	Cluster compounds	161, 1104
Bifunctional catalysts	451	Cobalt	333, 867
1,1'-Bis(diphenylphosphino)ethane	1104	Cobalt ferrites	1221
Bis-pyridinium oximes	40	Cobalt surfaces	459
Blue BG	1409	Co-crystals	35
Bridging ligands	1402	Colorimetry	1039
<i>tert</i> -Butylhydroperoxide	1032	Composites	757, 1434
Cadmium	489, 1098	Computational chemistry	9, 1069
Cage destruction	858	Conducting polymers	9, 1069
Calcination	1394	Conformational stability	52
Calix[4]arenes	52	Congo red	627
Calix[4]crown-4 ether	52	Conical intersections	27
Capacitive behaviour	46	Cooperativity effect	720
Carbenes	588	Coordination chemistry	35, 161, 170, 478, 588, 1098, 1104, 1402, 1446, 1451, 1459
Carbidopa	1378		
Carbon dioxide	752		
Carbon dioxide reforming	1198		

- | | | | |
|--|--|---------------------------------|---------------------------------|
| Coordination polymers | 1098, 1402 | Gas sensors | 155, 1092 |
| Copolymerization | 9 | Gel electrolytes | 1215 |
| Copolymers | 1069 | Glycol ethers | 345, 627 |
| Copper | 35, 1183, 1451 | Gold nanoparticles | 316, 1206 |
| Correlation consistent basis set | 1369 | Graphene | 187 |
| Cotton effect | 1017 | Graphene oxide | 187 |
| Coumarins | 316 | H-bonding | 596 |
| Crotonic acid | 1387 | HCN adsorption | 459 |
| Crystal structure | 1451 | Hetero-aromatic polymers | 9 |
| Crystal-to-amorphous transformations | 867 | Heteroatom substituted carbon | 1423 |
| CTAB | 351 | N-Heterocyclic carbenes | 588 |
| Cytosine | 27 | Heterocyclic compounds | 588 |
| Decomposition | 193, 333, 858 | Hexacyanoferrate(III) | 1085 |
| Degradation | 193, 613, 757, 867, 1057, 1440 | Hexadecane | 199 |
| Dehydrofluorination | 1192 | HNIW | 858 |
| Density functional calculations | 27, 459, 619, 858, 877, 1017, 1378, 1451 | Hollandite | 1026 |
| 1, 3-Dialkyl-2-(coumarinyl-6-azo)imidazolium bromide | 316 | Honeycomb monoliths | 843 |
| Diamides | 478 | Hydrocarbon complexes | 1369 |
| Diamine-diamide ligands | 596 | Hydrogen adsorption capacity | 1423 |
| Diels-Alder reaction | 877 | Hydrogen bond | 720 |
| Diethyl amine | 752 | Hydrogen bonding | 52 |
| Diols | 607 | Hydrogen storage | 1423 |
| Diphenyl carbonate | 607 | Hydrogenation | 309, 451, 588 |
| Dispersive interaction | 179 | Hydrotalcite catalysts | 1198 |
| DNA cleavage | 170 | Hydrotalcites | 451 |
| Donor-acceptor polymerization | 9, 1069 | Hydrothermal method | 155 |
| Doping | 1026 | Hydrothermal synthesis | 46, 851 |
| Double hybrid density functionals | 1369 | Hydroxyphthalic acid | 1098 |
| Dry reforming | 1198 | Imprinted polymers | 1051 |
| Dye degradation | 20, 613, 757, 1026, 1057, 1434, 1440 | Indigo dyes | 351 |
| Dyes | 351, 627 | Indole-based receptor | 1039 |
| Dynamic light scattering | 345 | Indolymethene | 1039 |
| Electroanalysis | 1215, 1221 | Interaction energy | 1369 |
| Electrochemistry | 187, 1215 | Intermolecular hydrogen bonding | 478 |
| Electrodes | 187, 1215 | Intermolecular interactions | 709 |
| Electron density | 27, 709, 720 | Interparticle charge transfer | 1076 |
| Electronic properties | 1069 | Interparticle interactions | 1206 |
| Electronic spectra | 1378 | Ion exchanger | 1032 |
| Electrostatic interaction | 179 | Ionic liquids | 1409 |
| Energy components | 1369 | Iron | 324, 478, 744, 1076, 1175 |
| Epinephrine | 1051 | Iron | 179 |
| Epoxidation | 1175 | Isatin | 199 |
| Explosives | 858 | Kinetics | 333, 351, 484, 1085, 1183, 1387 |
| Extraction | 324 | Ladder complexes | 1402 |
| Ferrites | 1221 | Langmuir isotherms | 1409 |
| Fluorescence | 316, 1451 | Langmuir-Hinshelwood kinetics | 356 |
| Fluorescent sensors | 1446 | L-Arginine | 187 |
| Formylation | 752 | Layered double hydroxides | 607 |
| Free energy | 179 | L-dopa | 1378 |
| Functional modification | 734 | Lipophilicity | 40 |
| | | Luminescence | 1394 |
| | | Macroporous materials | 469 |
| | | Magnesium oxide films | 1198 |

Maleoylation	734	Pentadiol	607
Manganese	170, 744, 1175	Pentafluoropropane	1192
-Manganese dioxide	46	1-Pentanal	451
Manganese oxyhydroxide	46	Peptides	1206
Mercaptosuccinic acid	1183	Periodate oxidation	351
Mesoporous materials	469	Peroxidisulfate	757
Metal phthalates	1402	Peroxomonosulphate decomposition	333
Metal-olefin interactions	588	Phenolic resins	193
Metal-organic framework	851	Phenols	324
Metformin hydrochloride	484	Phosphines	161, 581
Methane	1198	Phosphors	1394
Methylene blue	1057, 1183, 1434	Photocatalysis	356, 613, 851, 1076, 1440
Micelles	1440	Photocatalysts	20, 1026, 1057
Microemulsion medium	309	Photocatalytic degradation	1434, 1440
Microwave synthesis	851	Photodegradation	20
Microwave technique	324	Photoluminescence	489
Model-free kinetics	193	Photoluminescent properties	1098
Modified alumina	324	Photooxidation	356, 1076
Modified electrodes	187	Phthalates	1402
Molecular recognition	1039	Phthaloylation	734
Molecularly imprinted polymers	1051	Piperazinediium bis(μ_2 -phthalato) zincate	1402
T-Murolol	1017	Plasmon-plasmon interactions	1206
Nanocatalysis	1183	Platinum	199
Nanocomposites	309, 757, 1434	Polarizable continuum model analysis	179
Nanoparticles	155, 316, 1092, 1183, 1206, 1221, 1440	Polycarbonate diols	607
Nanostructures	872	Polypyrrole-modified zirconia	309
Nanowires	46	Polysaccharides	734
N-Heterocyclic carbenes	588	Potassium iodate	1387
Nickel	1192, 1198, 1459	Potential energy surfaces	1369
Nickel acetate	1192	Pour point	199
Nickel catalysts	1192	Protic acids	1104
Nitrates	596	Pyramidalization	877
Nitrogen doping	20, 1026	Pyrene fluorophore	1446
Nitrogen oxides	744	Pyrochlores	20
NO ligands	1451	Quantum dots	1092
Non-Arrhenius behaviour	1183	Quantum theory of atoms-in-molecules	27
Noncovalent interactions	709	Quantum yield	316
Nonionic surfactants	345, 1409	Quinoxalines	843
OCS-hydrocarbon complexes	1369	Radical scavenging	1206
Octopamine	619	Rare earths	1394
Optical activity	1017	Reaction mechanisms	333, 484, 1085, 1387
Optoelectronic devices	872	Reactivators	40
Organometallic compounds	581	Reduced density gradient	459, 709
Orthometalation	581	Reduction	744
Oscillation reactions	1109	Reference electrodes	1215
Osmium	161, 1104	Rehydration	867
Osmium tetroxide	1387	Repulsive interaction	179
Oxidation	333, 351, 484, 1032, 1085, 1183, 1387	Resins	193
Oxides	1026, 744, 872, 1092	Reverse micelles	351
Oximes	193	Reversible hydration	867
Oxygen evolution	1221	Ruthenium	451, 588, 752
Paraoxon	40	Rutin	187
Particle swarm optimization	9, 1069	Scavenging	1206
		Schiff bases	1175, 1446, 1451, 1459
		Selective hydrogenation	309

- | | | | |
|-----------------------------------|-----------------|--|------------------|
| Self-assembly | 1206 | Theoretical chemistry | 9, 27, |
| Semiconducting oxides | 1092 | | 459, 619, 709, |
| Semiconductors | 155, 356, 872 | | 720, 858, 877, |
| Sensors | 1446 | | 1017, 1369, 1378 |
| Sesquiterpenes | 1017 | Thermodynamic cooperativity | 720 |
| Silica | 469, 1434 | Thermodynamics | 345, 1409 |
| Silica-alumina support | 199 | Thin films | 872 |
| Silicalite-1 | 469 | Thiolated amino acids | 1206 |
| Silver | 588 | Tin oxides | 1092 |
| Solar light | 613 | Tin sulphide | 155 |
| Solar photocatalysis | 356 | Titanates | 1026 |
| Sol-gel method | 20, 613, | Titania | 613, 1076, |
| | 757, 1026, 1221 | Titanium | 744 |
| Solid acids | 843 | Titanium dodecylamino phosphate | 1044 |
| Solid phase extraction | 324, 1051 | T-Muurolol | 1017 |
| Solid state mechanism | 193 | Transesterification | 607 |
| Solid state reaction | 1394 | Transmetallation | 588 |
| Solvothermal method | 489, 1092 | Transparent conductive oxides | 872 |
| Spinel ferrites | 1221 | Triosmium clusters | 581, 1104 |
| Stability | 720, 858 | Triton X-100 | 627 |
| – Stacking | 478 | Tungsten | 744 |
| Steric hindrance | 877 | Ultrafast radiationless decay | 27 |
| Structural property | 1369 | UV-vis spectrophotometry | 1109 |
| Styrene | 1032 | Vanadium | 744 |
| Substituent effect | 179 | Vanillin | 193 |
| Substituted isatin | 179 | Vibration spectra | 1378 |
| Substitution reaction | 581 | Visible light | 20 |
| Succinoylation | 734 | Water pollution | 1051 |
| Sulfated ceria | 843 | Water pools | 351 |
| Sulphate ion radicals | 333 | Xanthenes | 1044 |
| Supported catalysts | 309, 1175 | X-ray crystal structure | 35 |
| Supramolecular architecture | 1459 | X-ray crystallography | 478 |
| Supramolecular interactions | 596 | X-ray diffraction | 489 |
| Supramolecular network | 1402 | X-ray structure | 170, 161, 581 |
| Surfactants | 345, 351, 627 | Zeolites | 469 |
| Syngas | 1198 | Zinc | 851, 1098, 1402 |
| Syn- π -face selectivity | 877 | Zinc oxide | 872 |
| Terpolymer resins | 193 | Zinc phthalates | 1402 |
| Terpyridine | 35 | Zinc sulphide | 1440 |
| Tertiary phosphines | 161 | Zirconia | 309, 843, 1434 |
| Tetrafluoropropene | 1192 | Zirconium phosphate | 1032 |
| Tetrahydrobenzo[a]xanthen-11-ones | 1044 | Zwitterion-type electrostatic interactions | 1206 |

Annual Author Index

Abbasoglu Rza	877	Durgannavar Amar K	1085
Abbaszadeh Mehran	619	Dutta Amit Kumar	478
Adhikary Jaydeep	1175	Dutta Paramita	1446
Ahmed Salwa A	324		
Akbarsha Mohammad Abdulkadhar	170	Elangovan S P	469
Alyoubi Abdulrahman O	27	Elroby Shaaban A	27
Andal P	333		
Ariharan Arjunan	1423	Gao Jian	1104
Atalay Abdurrahman	877	Gao Li	459
Aziz Saadullah G	27	Gayathri Loganathan	170
		Ghosh Kallol K	40
Bahadur P	345	Ghosh Koushik	1451
Bahadur Pratap	627	Ghosh Shishir	1109
Bajaj Hari C	752	Gokak D T	199
Bakhshi A K	9, 1069	Gou Gao-Zhang	1017
Balci Ahmet	1434	Gour Darshana G	1051
Banerjee Priyabrata	1175	Gundapaneni Raghava Rao	596
Bhatt Darshak R	1409	Guo Yong	1039
Bhattacharya Dibyendu	35	Gupta Bhanushree	40
Biswas Bhaskar	170	Gupta Deepmala	1387
Biswas Papu	478		
Bo Zhou	1017	Halder Shibashis	1451
Butcher Raymond J	1459	Hilal Rifaat	27, 1378
		Hossain Kamal	161, 581
Chandraker Kumudini	1206	Hu Qingqing	187
Chandraleka Saravanan	170	Hu Rong-Hua	489
Chattopadhyay Tanmay	1175	Huang Wei	1198
Chaudhary J P	734		
Chaudhary Jyoti	193	Jangid Nirmala Kumari	193
Chauhan Narendra Pal Singh	193	Jasra Raksh V	451
Chen Jingjing	1104	Jia Wan-li	720
Chen Wen-Tong	489	Jyai Rita N	1402
Cheralathan K K	469		
Chimatadar Shivamurti A	1085	Kabir Shariff E	161, 581, 1109
Chiranjeevi T	199	Kamil M S M	469
Chokhare R	1032	Kannappan V	179
Chouhan Arti	851	Karacaoglu Erkul	1394
Chudasama N A	734	Karasu Bekir	1394
		Karunakaran C	356, 1076
Dabbawala Aasif A	752	Karuthapandian S	356
Das Abhijit K	1369	Kataria Paridhi	193
Das Kuheli	1446	Khare S	1032
De Abhranil	170	Kiani Farhoush	619
Debnath Tanay	1369	Kirar J S	1032
Devi Longjam Meerabai	1440	Kodumuru Sreedhar	596
Dey Dhananjay	170	Kole Niranjana	170
Dey Sudipto	1451	Kondaveeti S	734
Dhanasekaran Dharumadurai	170	Koohyar Fardad	619
Dharaiya Niles	627	Kothawale R R	877
Dhavsakar Kiran T	867	Krupada Reddithota J	1051
Ding Xiong	720	Kuca Kamil	40
Dong Guojun	744	Kumar Arun	52

Kumar Satish	52	Parekh P	345
Kundha Shashank	596	Parikh Jigisha K	1409
Kurra Sreenu	1026	Park Su-Moon	46
		Parmar Arpan	627
Lavanya C	333	Patel Ram N	1459
Li Demei	1104	Patel Urja	345
Li Gui-Lian	1098	Patgar Manjanath B	1085
Li Jing-Wen	1098	Patra Chiranjit	316
Li Na	1198	Pola Someshwar	596
Li Qiao-Ling	709	Pousti Mohammad	619
Li Xiao-Ling	1098	Prabusankar Ganesan	588
Li Yan	309	Puttaswamy	484
Liang Yan	1192		
Liu Gen	187	Rahaman Ahibur	161
Liu Guang-Zhen	1098	Rajamanickam D	613
Liu Wei	1017	Rajbangshi Suba	161, 581, 1109
Lu Fusui	309	Rajini A	1044
Lu Ji-Qing	1192	Ramachandran M S	333
Luo Meng-Fei	1192	Ramakrishna S	1026
Luo Yan	187	Ranjani Anandan	170
		Rasoulifard Mohammad Hossein	757
Ma Lu-Fang	1098	Ravi G	20
Mahapatra Ambikesh	316	Reddy Anjali	596
Mahender N	1026	Reddy J R	1026
Maheria Kalpana C	1409	Ren Fu-de	709, 720
Mang Chao-Yong	1017	Rizzoli Corrado	1451
Manikandan K	469	Roy Himanish	316
Manjunath A S	484	Roy Partha	1451
Mansouri Saleh	20		
Maruthapandian V	1215	Sahoo P R	52
Masoudian Shahla	757	Sahu Arvind Kumar	40
Mathew K M	52	Samanta Suvendu	478
Mayer Peter	851	Saraswathy V	1215
Meena R	734	Sathyanarayanamoorthi V	179
Miah Abdur R	161, 581	Satnam Manmohan L	1206
Mishra K K	1183	Satyarthi J K	199
Mishra Sandeep Kumar	1387	Sen Chandana	316
Mitra Partha	170	Sen Kaushik	1369
Mohite R M	872	Shamshuddin S Z Mohamed	843
Mubarak N M	843	Shanthi M	613
Munisamy Venkatesan	588	Shao Shi Jun	1039
Muralidharan S	1215	Sharma Rahul	40
Musilek Kamil	40	Sharma Ranjana	1183
Muthuvinayagam A	155, 1092	Sharma Sumeet K	451
		Shen Chaofeng	1198
Nagabhushan E	1026	Shi Laishun	1104
Nagalakshmi K V	351	Shi Ling	1017
Nagwanshi Rekha	1206	Shi Wen-Jing	709, 720
Nandhakumar Vaiyapuri	1423	Shrivastava P	1032
Neelam	52	Shukla Maya	1183
Negi Devendra P S	1440	Shyamala P	351
		Siddhanta A K	734
Ogura Masaru	469	Siddiquee Tasneem A	161, 581, 1109
		Singh Bharat	1387
Pakhira Srimanta	1369	Singh Indra B	46
Pakravan Parvaneh	757	Singh Narendra Kumar	1221
Pal Mahender	1183	Singh Yama	40
Pal Sukanta	170	Singh Yogendra	1459
Palla Suresh	20	Singh Yogendra Pratap	1459
Panda Uttam	1446	Sinha Chittaranjan	316, 1446
Pandey Ashutosh	851	Song Hui	459, 709

Sreedasyam Jagannatha Swamy	596	Vinayagamoorthy P	1076
Srinivasan Bikshandarkoil R	867, 1402	Viswanathan B	155, 1092, 1423
Su Yu	744	Vithal M	20, 1026
Subba Rao P V	351		
Sudheesh N	752	Wang Fan	607
Sukker Ghader M	1378	Wang Fang	1192
Sun Dengming	187	Wang Liping	607
Sunkari Jyothi	596	Wang Yajie	744
Suresh Paladugu	588	Wang Ying-Yong	459
		Wang Yue-Juan	1192
Tan Pengjia	1198	Wazzan Nuha	1378
Thakral Priyanka	9, 1069	Wei Wei	1039
Tian Zhengbin	309		
Tomar Ritu	193	Xie Jiang-Bo	709
Tripathi Shipra	1387	Xin Ling-Yun	1098
Türker Lemi	858	Xu Linxiao	607
Tyagi Sudha	199	Xu Shi-Juan	1017
Uddin Md Miaz	1109	Yadav Ritu	1221
Uğurlu Mehmet	1434	Yan He-Ping	1017
		Yao Zhong-Liang	489
Vaishnav Sandeep K	1206	Zhang Wen-Xia	1192
Vaizogullar Ali İmran	1434	Zhang Yufeng	744
Vasumathi D	1076	Zhao Ying-Hu	459
Vaz Nirmala	484	Zhao Yuan	744
Venkatathri N	1044	Zong Lei	309
Venkatesh	843	Zuo Zhijun	1198
Vidhya P	179		