

Annual Index 2013

Annual Keyword Index

<i>Ab initio</i> calculations	19	Biomolecules	973
Absorption spectra	9, 1251	Bioorthogonal transformations	973
Acid Red 73	63	Biotin	1026
Additives	1284	Bischromophoric dyes	9
Adenine analogues	1041	Bismuth chloride	1103
Alcohols	28	Bis-phosphines	41
Aldehydes	28, 973	Bovine serum albumin	192
Aldol condensations	1564	Bromination	1078
Alkaloids	1093	Bromophthalimide	732
Alkanes	624		
Alkoxypropanol	1391	Cadmium	1404
Alkylation	1103	Cadmium sulphide	57, 614
Alkyne dimerization	1066	Cage compounds	1061
Alkynes	973	Cage molecules	1066
Amino acids	973	Caged RNA	1014
Aminophosphines	1400	Calcite	342
Anisotropy decay	1047	Calcium carbonate	342
Antibacterial activity	57	Calcium phosphate	739
Antihypertensive drugs	207	Calorimetry	350
Antioxidants	1019	Canonical amino acids	973
Apparent activation energy	226	Carbenes	1072
L-Arginine	732	Carbon	585
Aromatic thiols	1019	Carbon monoxide adsorption	362
Aryl halides	1400	Carbon nanotubes	868, 1557
Arylation	1093	Carbonates	459
Ascorbic acid	221	Carbonylation	334
Atenolol	207	Catalysis	724, 1066, 1093
Azides	973	Catalyst supports	585
Azomethine ylide	1113	Catalysts	28, 184, 362, 459, 585, 608, 868, 1383, 1564
Bentonite	1416	Catalytic activity	1400
Benzaldehyde	1564	Cationic ring	1377
Benzene-argon clusters	19	CdS-RGO composite	614
Benzene-benzene clusters	19	Ceria	868
Biaryl-coupling	1093	Cetyltrimethylammonium bromide	732
Bicyclic compounds	1086	Chalcogenolates	41
Bifurcated hydrogen bonding	717	Chemical bioconjugation	973
Bimetallic catalysis	1072	Chemical nuclease activity	835
Binary mixtures	624, 1391	Chemoselective reactions	973
Binary particle swarm optimization	317	Chitosan	1269
Binding properties	486	Chlorogenic acid	192
Bioceramics	739, 1570	Cloud point	1284
Bioconjugation	973	Cobalt oxide	709
Bioinorganic chemistry	327, 486, 835	Coinage metals	1041
Bioleflins	709		

Collision factor theory	492	Doping	739
Composites	614, 1383	Double metal cyanide	1564
Conducting polymers	317, 744	Drug delivery	207
Conductivity	467, 744	Drug release studies	1269
Coordination chemistry	34, 41, 45, 327, 334, 717 835, 845, 863, 1041, 1404, 1576	Duplex destabilizing	1014
Copolymers	317, 1047	Dye degradation	63, 1257, 1416
Copper	200, 327, 480, 717, 724, 835, 845, 1041, 1263	Ebselen	1078
Copper catalysed reactions	973	Electric field	1056
Copper modified electrodes	217	Electrically conducting polymers	317
Copper-bipyridyl complex	599	Electrocatalysis	217, 357
Coupled cluster methods	1056	Electrocatalysts	585, 868, 1557
Coupling reaction	863	Electrocatalytic oxidation	217
Crinasidine	1093	Electrocatalytic oxygen reduction	357
Cross-coupling reactions	1400	Electrochemical analysis	467
Crosslinking	879	Electrochemical deposition	868
Crotonaldehyde	28	Electrochemical faceting	357
Crotlyl alcohol	28	Electrochemistry	217, 357
Crystal growth	342	Electrochromism	593
Crystal structure	34, 342, 1247, 1404, 1576	Electrodes	217, 357
Crystallization	342	Electron microscopy	184, 342, 1026
CTAB	221	Electronic properties	317
ct-DNA	486	Electrooxidation	585, 868, 1557
Cuboids	619	Emission spectra	9
Cyclic carbonates	459	Encapsulation	207
Cyclic voltammetry	1251	End capping ligands	34
Cyclization	1086, 1103	5-endo-dig cyclization	1086
Cycloaddition	1113	Environment sensitive probes	1004
Cyclodextrins	207, 1031	Enzymatic activity	1019
Cyclohepta[b]furans	1103	Enzyme mimics	1019
Cytotoxic activity	835	Epoxidation	709
Degradation	63, 1257, 1416	Epoxides	709
Dehydrogenation	51	EPR spectroscopy	717
Density	1391	Ernst model	492
Density functional calculations	19, 480, 1061, 1411	Ethane dehydrogenation	51
Deposition-precipitation	184	Ethanol	1557
Differential scanning calorimetry	467	Ethyl acetoacetate	1391
Dihydrophenanthridine	1093	Ethylene	51
Dimethyl carbonate	459	Ethylene carbonate	459
Dimethyl ether	608	Excess volumes	624
Dinuclear complexes	327	Excimer formation	207
Dinuclear compounds	1576	Fish sperm DNA	1251
1,3-Dipolar cycloaddition	1113	Flower-like morphology	51
Dipole moments	1056	Fluorescence	1031, 1251
Direct methanol fuel cells	1383	Fluorescence probes	1004
Dispersion interactions	19	Fluorescence spectroscopy	192, 207, 1004, 1047
Disulfide bridges	1031	3-Formyl-2-furylcarbinols	1103
DNA binding	327, 486, 835, 845, 1251, 1576	FOX-7	473
DNA cleavage	327, 717, 835, 845, 1576	Fuel cells	868, 1383, 1557
DNA interactive drugs	486	3-Furancarboxaldehydes	1103
Dodecatungstosilicate	749	Furfuryl alcohols	1103
Doped catalyst	1257	Furotropone	1103
		Gel network	879
		Glutathione peroxidase	1019
		Glycine	200
		Gold electrodes	357
		Gold nanoparticles	184, 1026
		G-quadruplex DNA	486

Graphene oxide	614	Magnetite	1257
Guanidine salt	473	Mechanochemical synthesis	1570
Halides	1404	Mercaptan	1411
Heat capacity	350	Mercury	1247
Hemicyanine dyes	9	Mesoporous materials	619
Heptanal	1564	Mesoporous nano hollow cuboids	619
Heptaoxyethylene dodecyl ether	1284	Mesoporous titania	1257
Heterocyclic carbenes	1072	Metal dispersion	362
High-energy compounds	473	Metal ion catalysis	724
Hollow cuboids	619	Metallopeptides	992
Homogeneous catalysis	854	Metal-nucleobase frameworks	1041
Homogeneous precipitation	51	Methanethiol	1411
HOMO-LUMO energy gap	1056	Methanol carbonylation	334
Hydroamination	1072	Methanol electrooxidation	868
Hydrocarbons	709	Methanol oxidation	585
Hydrodesulphurization	362	Methanol tolerant cathode material	1383
Hydrogen bonding	717	Methyl acetoacetate	226
Hydrogenation	28	Methylene blue	614, 724
Hydrophobic interaction	1251	Micellar kinetics	732
Hydrothermal synthesis	749	Micelles	221
Hydrotreating catalysts	362	Microcalorimetry methods	57
Hydroxyapatites	739, 1570	Microemulsions	873
Hypochromicity	1251	Microtubules	1026
Ibuprofen	619	Middle phase microemulsions	873
Idarubicin	1251	Mixed alkenes	709
Impedance model	492	Mixed oxides	459
Impregnation method	28	Modified electrodes	217
Inclusion complexes	207	Molecular modeling	207
Inorganic chemistry	342	Molybdenum	362
Interaction energy	1061	N-Bromophthalimide	732
Intercalative binding	1251	Nanocrystals	593
Intermolecular free length theory	492	Nanomaterials	593, 709, 1570
Iodate oxidation	854	Nanoparticles	57, 184, 724, 1026, 1066, 1557, 1591
Ionic liquid polymer method	1557	Ne+HD ⁺ reaction	177
Ionic liquids	1047, 1377	N-Heterocyclic carbenes	1072
Iridium	28, 334, 854	Nickel	45, 845
Iron	744, 1576	Nickel oxide	51
Iron polypyrrole carbon composite	1383	Nicotine	1113
Jasminaldehyde	1564	Niobium oxide	593
Junjie model	492	Nitro-enamine compounds	473
Ketones	973	Nomoto model	492
Kinetics	200, 221, 599, 24, 732, 854, 1411, 1584	Non-ionic surfactants	1284
Kosnarite-type structures	350	Nuclease activity	845
Lactose	599	Nucleic acids	1004
Lamellar liquid crystals	1275	Octan-2-ol	624
Lanthanum oxide	459	Olefins	709
Light-activatable RNA	1014	Oligosaccharides	207
Liquid crystals	1275	Organic complex salts	192
Liquid phase catalysts	608	Organic polyoxometalates	749
Lithiation	1103	Organic sulfides	1584
Luminescence	34, 1404	Organochalcogenolates	41
Manganese	1584	Organometallic catalysis	992
Magnesium oxide	459	Organoselenium compounds	1019, 1078
		Organostannoxane	1066
		Oscillatory reactions	226
		Oxidation	200, 217, 599, 732, 854, 1263
		Oxidative dehydrogenation	51

Oxides	28, 63, 459	Raman spectra	1061
Oxidizing agents	744	Reaction mechanism	200, 599, 854, 724, 1263, 1584
Oximate bridged complexes	327	Reduced graphene oxide	614
Oxime-Schiff base ligands	327	Reduction	184
Oxobridged diiron(III) complex	1576	Refolding dynamics	1031
Oxygen clathrate hydrates	1061	Reverse micelles	221
Oxygen reduction	357, 1383	Rheological properties	1275
Palladium	41, 863, 1066, 1093, 1400	Rheology	879
Particle swarm optimization	317	Rhodamine B	1416
Peptide-peptide interactions	992	Rhodium	334
Peroxidative oxidation	1263	Ribonucleoside analogues	1004
Peroxide reduction	1019	RNA	1014
Phase behavior	1275	Ruthenium	334, 599
Phase transitions	350	Salbutamol	207
Phenanthridine	1093	Salen	1584
Phenanthridone	1093	Salting effects	1377
Phosphates	350	Schiff bases	34, 327, 845, 863, 1404
Phosphine ligands	41, 334	Selective hydrogenation	28
Phosphinic amide	1400	Selenenyl bromide	1078
Photocatalysis	614	Self assembled electrodes	217
Photocatalyst	1257, 1416	sII hydrate lattice	1061
Photocatalytic activity	57, 1257	Silica	619
Photocatalytic degradation	63	Silica EM grid	1026
Photodegradation	1416	Silver	1041, 1072
Photo-fenton reaction	1416	Site-selective modifications	973
Photophysical behavior	9	Slurry catalyst	608
Plasticized polymer electrolytes	467	SNNS donor type complex	45
Platinum	868, 1557	Sodium chlorite	226
Polarity switch	9	Sodium deoxycholate	1275
Poly(methyl methacrylate)	467	Sodium dodecyl sulphate	732, 1031
Polyglucoside microemulsions	873	Sodium doping	739
Polyguluronic acid	1269	Sodium metaperiodate	1584
Polymannuronic acid	1269	Sol-gel process	593
Polymer electrolytes	467	Sol-gel transition	879
Polymers	744	Solid acid catalyst	1564
Polymorphism	342	Solid base catalysts	459
Polynuclear complexes	1263	Solid-to-solid phase transitions	350
Polyoxometalates	749	Solubilization power	873
Polypyrrole	744	Solution chemistry	624
Polyuronic acid	1269	Solvation dynamics	1047
Porous carbons	585	Solvatochromism	9
Post-translational protein modification	992	Solvent effects	9
Praseodymium doping	1257	Solvent parameters	9
Precipitation	51	Solvothermal method	57, 1591
Prigogine-Flory-Patterson theory	492, 624	Sonochemical reduction	614
Propargyl amines	1086	Sotalol	207
Propylene carbonate	459	Spectral studies	486
Protein functionalities	973	Speed of sound	492
Protein modifications	973	Spin coating	593
Protein refolding	1031	Steady-state spectroscopy	1031
Protein unfolding	1031	Stereodynamics	177
Protein-protein interactions	992	Stereoselective synthesis	1113
Purine ligands	1041	Stokes shift	9
PVA-borax hydrogels	879	Successive exclusion of variable	9
Pyridine alkaloids	1113	Supported catalyst	28
Pyrrrolizidine core	1086	Supramolecular interactions	1247
Quasi-classical trajectory	177	Surface functionalisation	1026
Quinolines	1072	Surfactant enhanced aquifer remediation	873

Surfactants	879, 1284	Tripodal tetramine ligands	480
Suzuki-Miyaura cross-coupling reactions	1400	Tungsten	362, 749
Swelling ratio	879		
Synergism	724	Ultrasonic speed	1391
Syngas	608	Unnatural amino acids	973
		Unsaturated aldehydes	28
Theoretical chemistry	19, 177, 317, 473, 480, 1411	UV light	63
Thermal studies	473	UV-vis spectrophotometry	226
Thermodynamic parameters	1284	Van Dael model	492
Thermodynamic properties	350	Van der Waals' clusters	19
Thermodynamics	1411	Vaterite	342
Thin films	593	Vector correlations	177
Thiols	1019	Vibrational spectroscopy	1061
Thiosemicarbazones	45	Viscosity	624, 1251, 1377
Time dependent density functional calculations	480		
Time-dependent wave packet	177	Water dimer	1056
Time-resolved spectroscopy	1031	Water pools	221
Tin	1066, 1557		
Titania	184, 1257	X-ray crystal structure	41, 717
Toluidine blue	221	X-ray crystallography	327
Transesterification	459	X-ray diffraction	1078, 1269
Transition metals	1041		
Triazines	717	Ynones	863
Triblock copolymers	1047		
Tricoordination	1247	Zinc	34, 486, 724
Tridentate Schiff bases	34	Zinc oxide	63
Triiodomercuric ion	1247	Zinc sulphide	1591
Trimethyl sulfonium salt	1247	Zirconia	868

Annual Author Index

Adnan Rohana	184	Das Atanu Kumar	1047
Adriel Jebin J	744	Das Debasis	863
Adzila Sharifah	739, 1570	Das Nirmal Kumar	1031
Agrawal Divya	973	Das Sudhanshu	863
Ali Mahammad	749	De Subhadip	1093
Aliaga-Alcalde Nuria	1576	Dey Dhananjay	1093
Alyoubi Abdulrahman	19	Dhiman Seema	1103
Ameta Noopur	1416		
Amritphale S S	1591	Elroy Shabaan A K	19
Anand R Vijaya	1086		
Anand Uttam	1031	Farrukh Muhammad A	184
Anitha S	45	Fu Yucai	57
Antony Raj T	744		
Arora Vinita	317	Ganesamoorthy Chelladurai	1400
Arulananda Babu Srinivasarao	1113	Gao Shuai	473
Asabina E A	350	Gao Zhihua	608
Aziz Saadallah G	19	Gawande Sandeep	614
		Ghosh Barindra Kumar	34, 1404
Bagdi Avik Kr	863	Ghosh Narayani	1031
Bahadur P	1284	Ghosh Pradip	1247
Bajaj H C	459	Ghosh Rajarshi	1576
Bakhshi A K	317	Ghosh Shirsendu	1047
Balakrishna Maravanji S	1400	Ghosh Subhadip	1031
Baliarsingh Sasmita	9	Ghosh Surajit	1026
Balkrishna Shah Jaimin	1078	Ghosh Totan	863
Barman Kaushik	217	Godiya Chirag B	1269
Basu Anirban	1576	Gokak D T	362
Bera Jitendra K	1072	Golen James A	41
Berlin Beata	1014	Gong Ming	1557
Bhabak Krishna Pada	1019	Gopi Shanmukhaprasad	342
Bhar Kishalay	34, 1404	Gowda Jayant I	200
Bhattacharyya Kankan	1047	Goyal Namita	732
Bhowmick Debasish	1019	Guo F M	1275
Bisai Alakesh	1093	Guo Jinxue	868
Biswas Bhaskar	1576	Gupta Ritu	724
Borah Geetika	334		
Boruah Devajani	334	Hackenberger Christian P R	973
		Hajian Reza	1251
Chai Jinling	873	Hajra Alakananda	863
Chakraborty Indrani	1026	Hamdi Mohd.	739, 1570
Chakravorty Animesh	1247	Hanabaratti Rohini M	200
Chandera Kiran	1416	Haribabu P	327
Chandra Navin	1591	Hassan Walid M I	19
Chandrasekhar Vadapalli	1066	Hazra Dipak K	749
Chatterjee Rajarshi	749	Heckel Alexander	1014
Chattopadhyay Tanmay	863	Hilal Rifaat	19
Chaturvedi Ranu	724	Hong Xiao	28
Chauhan Rohit Singh	41	Hoong Wong Yew	1570
Chellamani Arunachalam	1584	Hu Geng-shen	28
Chen Zhen-Feng	486	Huang Wei	608
Chhatbar Mahesh U	1269	Hussain Reddy K	327, 845
Chilamari Maheshwerreddy	992		
Chiranjeevi T	362	Ibrahim Sk Md	1400
Choudary N V	362	Ijardar Sushma P	492
Chu Jia	1557		

Jain V K	498	Mathew Asha	221
Jain Vimal K	41	Meena Ramavatar	1269
Jasimuddin Sk	217	Menaka C	467
Jasra Raksh V	1564	Meng Fa-Yan	192
Jia Qin	608	Mirgane Sunil R	624
Jin Ling-yun	28	Mishra Ashutosh Kumar	1041
Jing Zhihong	57	Mishra Bijay K	9
Jude Jenita M	207	Mishra Deepti	1591
		Mishra K K	724
Kakde Badrinath N	1093	Mishra Lallan	835
Kalal Sangeeta	1416	Mishra Sourabh	1093
Karakaş Duran	480	Mitra Merry	1576
Karthikeyan J	45	Mitra Partha	34, 1404, 1576
Karumbamkandathil Arshad	1031	Mondal Arobendo	1056
Katre Yokraj	732	Mondal Ramakanta	1031
Kaur Gurpreet	1086	Mondal Tridib	1047
Kedarnath G	41	Mugesh Govindasamy	1019
Khan Rais Ahmad	835	Mukherjee Monika	749
Kukreti S	317	Mukherjee Saptarshi	1031
Kumar Amit	1078	Murugan C	459
Kumar Anil	1377	Muthukannan R	744
Kumar Gopinatha Suresh	1576		
Kumar Harsh	1391	Nanda Raju	1377
Kumar Sangit	1078	Nandi Mahasweta	1263
Kumar Shailesh	1078	Nandibewoor Sharanappa T	200
Kumari Niraj	835	Nair Balachandran Unni	1576
Kundu Subhasish	34, 1404	Nethaji M	327, 749
		Nilamadanthai A	63
Lahiri Swati	1591	Nityananda Shetty A	45
Lei J	709	Nookaraju M	619
Li Bo	28	Nuthanakanti Ashok	1004
Li Fen	57		
Li Junying	873	Oswal Shantilal B	492
Li Na	226		
Li Tianduo	873	Padma M	221
Li Yu-Lan	486	Pal Abhijit	1576
Lin Cui-Wu	192	Pal Amalendu	1391
Lin Sha	226	Pal Mahender	724
Liu Guangming	357	Panahi Farkhondeh	1251
Liu Jie	226	Panini Piyush	1078
Liu Shufeng	357	Pareek Manish	1086
Liu Weiguo	585	Parekh P	1284
Liu X	1275	Patel Dheerendra K	717
Liu Xiaobo	1257	Patel Dinesh K	717
Liu Yan-Cheng	486	Patel Ram N	717
Lu Ji-qing	28	Patel Sabita	9
Lu X-H	709	Patil Mallikarjun V	1564
Luo Meng-fei	28	Patil Yogesh P	327
Luo Xu-Jian	486	Pattanashetti Nandini A	200
		Pet'kov V I	350
Ma Lin	192	Pragathi M	845
Ma X B	1275	Prabhakar Priyanka	1591
Maan Ritu	1391	Prajapati Rajneesh Kumar	1041
Madhu	1383	Pritika G	362
Mahajan Aravind R	624	Punjabi Pinki B	1416
Mahesh Sriram	1086	Purbolaksone J	1570
Maiti Pali	863	Pusparini Erlani	739
Majee Adinath	863		
Malek Naved I	492	Qian Li	57
Mandal Amit Kumar	1047	Qian Yanan	226
Manisankar P	467	Qin Qi-Pin	486
		Qiu Jingping	1257

Rahmani Shahla	599, 854	Stalin T	467
Rai Geeta	835	Stoess Tatjana	1014
Rai Richa	835	Su D-Z	177
Rai Vishal	992	Subash B	63
Rajalakshmi Subramaniam	1576	Subba Rao P V	221
Rajendiran N	207	Subramanian Ramasamy	1584
Rajini A	619	Subramanian V K	207, 342
Rajkumar Vadla	1113	Sun Xiaogang	1257
Ramanjaneyulu B T	1086	Sun Yanfang	868
Ramasastry S S V	1103	Suriya Narayanan Ramakirushnan	1066
Ramya K R	1061	Sutradhar Dipu	1404
Rao Chepuri R K	744	Swaminathan M	63
Reddy I A K	619		
Ren Xiao-Lei	473	Tabassum Sartaj	835
Rheingold Arnold L	41	Tan Lihua	57
Rodrigues-Correia Alexandre	1014	Tang Lin	868
Roy Partha	1263	Thakare Sanjay R	614
Roy Subhasis	34, 1404	Thakral Priyanka	317
		Tiwari Ashwani K	1056
Sabale Pramod M	1004		
Sadhukhan Nabanita	1072	Venkatathri N	619
Saha Abhijit	1026	Venkatesh G	207
Saha Sayantani	1072	Venkatnathan Arun	1061
Sakthi Velu K	467	Verma Amita	593
Sarbajna Abir	1072	Verma Sandeep	1041
Satapathi Smita	34	Vijayan M	744
Satyanarayana A	221		
Saurav Sameer	1056	Wang Bo-zhou	473
Sayin Koray	480	Wang Jun	57
Seenivasan H	1056	Wang K	177
Shanthi M	63	Wang M	1275
Sharma C S	1383	Wang Xiaoqin	1557
Sharma Harish Kumar	1391	Wang Y-L	177
Sharma Jyoti	1416	Wang Yue-juan	28
Sharma Radhika	732	Wang Z N	1275
Sharma Ranjana	724	Wei X L	
Sharma Sumeet K	1564	Wei X-L	709, 1275
Shi Laishun	226	Wei-Jinag Si	1411
Shi Lei	873	Wilhelm Julia	1014
Shukla Krishna K	717	Wu Bohua	1557
Shukla Maya	724	Wu Tinghua	51
Shu-Ping Zhuo	1411	Wu Ying	51
Shyamala P	221		
Siddhanta A K	1269	Xia Q-H	709
Singh Ajaya Kumar	732	Xing Jun	1257
Singh Ashok Kumar	599, 854	Xiong Shanxin	1557
Singh Manjula	599	Xu Kang-zhen	473
Singh Naorem Shubhaschandra	879		
Singh P K	593	Yan Aifeng	51
Singh Priyanka	854	Yang Bing	226
Singh R N	1383	Yang Xiaodeng	873
Singh Ramesh	739, 1570	Yazid Hanani	184
Singh Yogendra	717	Yerramilli Usha R	1284
Sobana N	63	Yin Lihua	608
Sondhiya Vishnu P	717	Yong Tan Chou	1570
Song Ji-rong	473	Yu Sheng-Rong	192
Sopyan Iis	739, 1570		
Srivastava Ashish Kumar	835	Zangrando Ennio	863
Srivastava Jaya	599	Zhang Hang	473
Srivastava Rashmi	854	Zhang J-L	709
Srivatsan Seergazhi G	1004	Zhang Li	585

ANNUAL INDEX

1603

Zhang Xiao
Zhang Yunsong
Zhao Maojun
Zhou D

868
585
585
709

Zhou Dishan
Zhou W
Zhou Zi-Yan
Zhu Hongtao

51
1275
1411
868

