Indian Institute of Science Bangalore

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2011 to >2016 | no subject area filter selected | ASJC | Data sources

Summary | Awarded Grants | Collaboration | Published | Viewed | Cited | Economic Impact | Societal Impact | Authors | Competencies

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Competencies of the Indian Institute of Science Bangalore in 2015 based on an analysis of publications over the period 2011-2015

Table | Circle | Matrix

Filter competencies by

ID	Keywords	Most published authors	Publications	Citations
DC #1	Mycobacterium tuberculosis; Tuberculosis; Bacterial Proteins	Chatterji D., Visweswariah S.S., Nagaraja V.	94 ▲	342
DC #2	Metallic glass; Hydrogen bonds; Crystals	Desiraju G.R., Ramamurty U., Guru Row T.N.	185 ▲	3,390
DC #3	Proteins; Binding Sites; Models, Molecular	Vijayan M., Chandra N.R., Surolia A.	77 ▼	402
DC #4	Shielding; Polymers; Composite materials	Bose S., Madras G., Kar G.P.	74 ▲	393
DC #5	Peptides; Amino acids; Conformations	Balaram P., Shamala N., Basuroy K.	61 ▲	366
DC #6	Indium; Nitrides; Films	Krupanidhi S.B., Roul B., Rajpalke M.K.	41 ▼	291
DC #7	Reliability analysis; Municipal solid waste; Reliability	Sivakumar Babu G.L.S., Babu. G.L.S., Manohar C.S.	30 ▲	37
DC #8	Proteins; Databases, Protein; Protein Structure, Tertiary	Srinivasan N., Vishveshwara S., Bhattacharyya M.	57 ▼	289
DC #9	Missiles; Electronic guidance systems; Control	Ghose D., Ratnoo A., Padhi R.	74 ▲	341
DC #10	Gallium nitride; Substrates; Silicon	Paul A., Krupanidhi S.B., Roul B.	66 ▼	289
DC #11	Titanium dioxide; Oxide minerals; Films	Mohan Rao G., Shivashankar S.A., Kumar A.	32 ▲	246
DC #12	Glass; Thin films; Germanium	Sangunni K.S., Asokan S., Ganesan R.	57 ▼	168
DC #13	water; Dendrimers; Molecular dynamics	Bagchi B., Maiti P.K., Roy S.K.	69 ▼	582
DC #14	Fires; Graphene; Fire detectors	Misra A., Gowda P.L., Mohapatra D.R.	15 ▲	347
DC #15	ground motion; Earthquakes; earthquake	Anbazhagan P., Sitharam T.G., Kumar A.	40 ▼	107
DC #16	Decoding; Block codes; MIMO systems	Rajan B.S., Natarajan L.P., Srinath K.P.	63 ▼	137
EC #17	Ferroelectric materials; Phase boundaries; Lead	Ranjan R., Rao B., Kothai V.	37 ▲	174
DC #18	DNA; Curcumin; Ligands	Chakravarty A.R., Kondaiah P., Banerjee S.	87 ▲	816
DC #19	entropy; gravitation; black holes (astronomy)	Sinha A., Bhattacharyya A., David J.R.	45 ▲	493
DC #20	Graphene; Thermal conductivity; Monolayers	Mahapatra S., Singh A.K., Bhattacharya S.N.	27 ▲	207
DC #21	Perovskite; Magnetic properties; Magnetization	Elizabeth S., Anil Kumar P.S., Manna K.	23 ▼	171
DC #22	DNA; DNA, Single-Stranded; Proteins	Varshney U., Vijayan M., Muniyappa K.	38 ▼	125
EC #23	spin; lattices; coupling	Shenoy V.B., Krishnamurthy H.R., Vyasanakere J.P.	28 ▲	256
EC #24	Character recognition; Optical character recognition; Color	Ramakrishnan A.G., Kumar D.S.S., Prasad M.N.A.	11 ▼	7
EC #25	Ergonomics; Wastes; Recycling	Chakrabarti A., Harivardhini S., Gurumoorthy B.	5 ▲	3
DC #26	variations; theorems; entropy	Vasu R.M.O., Roy D., Kanhirodan R.	25 ▼	58

ID	Keywords	Most published authors	Publications	Citations
EC #27	Elasticity; Carbon nanotubes; Boundary conditions	Gopalakrishnan S., Roy Mahapatra D.R., Narendar S.	23 ▼	274
DC #28	Bearing capacity; footing; Soils	Kumar J., Hegde A.M., Sitharam T.G.	44 ▲	99
DC #29	Energy harvesting; Radio; Wireless sensor networks	Mehta N.B., Murthy C.R.L., Talak R.	43 ▼	97
DC #30	Zinc oxide; Photoluminescence; Zinc	Shivashankar S.A., Brahma S., Sai R.	36 ▲	257
EC #31	climate change; vulnerability; climate	Ravindranath N.H., Kulkarni A.V., Jayaraman M.	39 ▼	468
EC #32	Nuclear magnetic resonance; Nuclear magnetic resonance spectroscopy; Enantiomers	Suryaprakash N.R., Chaudhari S.R., Ramanathan K.V.	47 ▲	263
EC #33	Finite element method; Natural frequencies; Vibration analysis	Ganguli R., Gopalakrishnan S., Sarkar K.	59 ▲	118
EC #34	Cyanides; Negative ions; Fluorescence	Thilagar P., Mukherjee S., Swamy P.C.A.	29 ▲	367

EC #35	Nanowires; Molecular dynamics; Gold	Ravishankar N., Sutrakar V.K., Roy Mahapatra D.R.	25 ▼	143
EC #36	Speech; Database systems; Forecasting	Ramakrishnan A.G., Prathosh A.P., Seelamantula C.S.E.	24 ▲	44
EC #37	Permittivity; Dielectric properties; Composite materials	Roy A.S., Ramamurthy P.C., Gupta S.K.	22 ▲	161
EC #38	Earth (planet); Compressive strength; Brick	Venkatarama Reddy B.V., Nanjunda Rao K.S.N., Reddy B.V.V.	16 ▲	34
EC #39	Capacitance; Manganese oxide; Electrodes	Munichandraiah N., Nayak P.K., Shukla A.K.	10 ▼	70
EC #40	Microstructure; Alloys; Titanium alloys	Suwas S., Roy S., Sabat R.K.	63 ▲	417
EC #41	Graphene; Energy gap; Electric fields	Sood A.K., Chakraborty B., Bhattacharya S.N.	16 ▼	267
EC #42	Pulse width modulation; Electric potential; Modulation	Gopakumar K.N., Narayanan G.N., Mathew K.K.	40 ▲	217
EC #43	Gasification; Biomass; Fuels	Dasappa S., Mahapatra S., Sridhar H.V.	14 ▲	115
EC #44	DNA Restriction-Modification Enzymes; Methyltransferases; Helicobacter pylori	Rao D.N., Kumar R.P., Bansal M.R.	13 ▼	100
EC #45	Alloys; Solidification; Microstructure	Dutta P., Das P., Choudhury A.N.	26 ▲	80
EC #46	Nanocrystals; Semiconductor quantum dots; Doping (additives)	Sarma D.D., Pandey A.K., Viswanatha R.	15 ▲	175
EC #47	Surface waves; Wave propagation; Dispersion (waves)	Kumar J., Rakaraddi P.G., Hazra S.	9 ▲	17
EC #48	Data storage equipment; Optimization; Program processors	Bondhugula U.K.R., Bandishti V., Pananilath I.	13 ▼	30
EC #49	Operator; Hardy space; Invariant subspace	Bhattacharyya T., Misra G., Sarkar S.	15 ▲	38
EC #50	Storage (materials); Repair; Multiprocessing systems	Kumar P.V., Sasidharan B., Prakash N.	23 ▲	389
EC #51	G-Quadruplexes; Thiadiazoles; Porphyrins	Raghavan S.C., Nambiar M., Choudhary B.	54 ▲	508
EC #52	Microscopy; Light; Lighting	Mondal P.P.R., Mohan K.J., Purnapatra S.B.	26 ▲	145
EC #53	Carbon dioxide; Solubility; Supercritical fluid extraction	Madras G., Reddy S.N., Narayan R.C.	13 ▼	44
EC #54	Traffic signals; Intersections; Vehicles	Bhatnagar S., Prashanth L.A., Prabuchandran K.J.	24 ▲	74
EC #55	Compliant mechanisms; Soils; Cements	Ananthasuresh G.K., Bhargav S.D.B., Pathak R.K.	16 ▲	13
EC #56	X ray diffraction; Synthesis (chemical); Scanning electron microscopy	Shivakumara C., Thomas T.G., Nagaraja G.K.A.	31 ▲	249
EC #57	Approximation algorithms; Polynomials; Algorithms	Chandran L.S., Govindarajan S., Ashok P.	15 ▲	30
EC #58	MIMO systems; Algorithms; Antennas	Chockalingam A., Datta T., Sundaresan R.	30 ▼	133
EC #59	Network coding; Decoding; Network layers	Kashyap N., Mukherjee M., Shashank V.	18 ▲	19
EC #60	Satellites; satellite; satellite altimetry	Papa F., Vinayachandran P.N., Sengupta D.K.	30 ▲	94
EC #61	Explosives; Fluorescence; Quenching	Mukherjee P.S.A., Shanmugaraju S., Bar A.K.U.	47 ▲	2,064
EC #62	urban sprawl; land use; urban development	Ramachandra T.V., Sowmyashree M.V., Aithal B.H.	8 ▲	34
EC #63	Filtration; Image denoising; Pixels	Seelamantula C.S.E., Kishan H., Chaudhury K.N.	14 ▲	25
EC #64	primate; Primates; monkeys	Radhakrishna S., McConkey K.R., Sengupta A.	16 ▲	24

ID	Keywords	Most published authors	Publications	Citations
EC #65	Carbon nanotubes; Nanotubes; Graphene	Misra A., Kumar P., Reddy S.K.	27 ▲	165
EC #66	Hepacivirus; Ribosomes; Protein Biosynthesis	Das S., Sharathchandra A., Khan D.	19 ▼	116
EC #67	Mufflers; Acoustics; Acoustic waves	Munjal M.L., Mimani A., Krishna V.V.	21 ▼	83
EC #68	Elephantidae; Elephas maximus; elephant	Sukumar R., Baskaran N., Seshagiri P.B.	16 ▼	46
EC #69	Photoluminescence; Nanoparticles; Phosphors	Shivakumara C., Jagirdar B.R., Arora N.	36 ▲	317
EC #70	Ejectors (pumps); Mixing; Pressure	Rajan N.K.S., Paul P.J., Jagadeesh G.	9 ▲	18
EC #71	Visualization; Algorithms; Topology	Natarajan V., Thomas D.M.A., Doraiswamy H.	13 ▼	68
EC #72	Neurons; Dendrites; Action Potentials	Narayanan R., Rathour R.K., Ray S.M.	20 ▲	128
EC #73	Tin; Energy gap; Thin films	Devika M., Gunasekhar K.R., Koteeswara Reddy N.	13 ▼	150
EC #74	Strain rate; Alloys; Strain	Joseph S., Kumar S.S., Ananthakrishna G.	14 ▲	50
EC #75	Cognitive radio; Detectors; Antennas	Gurugopinath S., Murthy C.R.L., Sharma V.K.	12 ▲	3
EC #76	glass; liquids; transition	Dasgupta C., Gokhale S., Chakrabarty S.	17 ▲	75
EC #77	Drops; Atomization; Liquids	Basu S., Raghunandan B.N., Miglani A.	14 ▲	31
EC #78	Lime; Soils; soil	Sivapullaiah P.V., Jha A.K., Rao S.M.	13 ▲	18
EC #79	Innovation; Sampling; Signal reconstruction	Seelamantula C.S.E., Mulleti S., Shenoy B.A.	12 ▲	6
EC #80	Manganese oxide; Manganites; Magnetization	Bhat S.V., Bhagyashree K.S., Singh G.P.	16 ▲	28

EC #81	downscaling; climate modeling; climate change	Nagesh Kumar D., Nanjundiah R.S., Mujumdar P.P.	16 ▲	76
EC #82	Channel state information; MIMO systems; Fading channels	Mehta N.B., Kashyap S.S., Rajan B.S.	16 ▼	72
EC #83	Microcephaly; Genes; Mutation	Kumar A.P., Mani S.T., Venkatesh T.V.	8 ▼	53
EC #84	Anchors; anchor; uplift	Kumar J., Sahoo J.P., Bhattacharya P.K.	18 ▼	23
EC #85	Hydroxyapatite; Nanoparticles; Titanium	Basu B., Thrivikraman G., Dubey A.K.U.	18 ▲	68
EC #86	Nanocrystals; Photoluminescence; Semiconductor quantum dots	Nanda K.K., Shinde S.L., Brahma S.	9 ▼	17
EC #87	Composite materials; Structural dynamics; Stiffness	Harursampath D.K., Harish A.B., Naik G.N.	23 ▼	12
EC #88	Oximes; Cyclization; Cycloaddition Reaction	Kumar H.V., Ravikumar Naik T.R., Mukherjee S.	14 ▲	134
EC #89	Ribosome Inactivating Proteins; Ribosome Inactivating Proteins, Type 1; Abrin	Karande A.A., Mishra R.C., Gadadhar S.	9 ▲	28
EC #90	Nanocantilevers; Composite micromechanics; Sensors	Pratap R., Varma M.M., Phani S.A.	4 ▼	0
EC #91	Probiotics; Lactobacillus; Hydrophobic and Hydrophilic Interactions	Natarajan K.A., Padukone S.U., Yogananda Murthy V.N.	8 ▼	31
EC #92	blinking; Semiconductor quantum dots; quantum dots	Venkataraman V., Khatei J., Harbola U.	7 ▼	11
EC #93	Nuclear Magnetic Resonance, Biomolecular; Magnetic Resonance Spectroscopy; Proteins	Atreya H.S., Suryaprakash N.R., Jaipuria G.	14 ▲	57
EC #94	Borides; Composite materials; Hardness	Basu B., Gupta N.P., Brahma Raju G.	13 ▲	88
EC #95	Chemical sensors; Cadmium sulfide; Gas detectors	Sarma D.D., Umarji A.M., Hazarika A.	12 ▲	101
EC #96	Graphene; Doping (additives); Capacitance	RAO CNR, Govindaraj A.K., Moses K.	9 ▲	102
EC #97	Servers; Public policy; Costs	Mukherji U., Sukumaran V.B.	4 ▼	0
EC #98	Throughput; Radio; Quality of service	Kumar A.A., Kuri J., Chattopadhyay A.B.	13 ▼	11
EC #99	fire; fires; Lantana camara	Sukumar R., Ramaswami G., Kodandapani N.	8 ▼	31
EC #100	RNA, Transfer; Ribosomes; Peptide Initiation Factors	Varshney U., Samhita L., Shetty S.	9 ▼	19
EC #101	Polyelectrolytes; Drug delivery; Matrix Metalloproteinase 7	Raichur A.M., Radhakrishnan K., Anandhakumar S.	13 ▼	144
EC #102	Solar cells; Energy gap; Thin films	Krupanidhi S.B., Murali B., Madhuri M.K.	5 ▲	20

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EC #103	Electrolytes; Ionic conductivity; Lithium	Bhattacharyya A.J.I., Das S., Patel M.M.	8 ▼	75
EC #104	indicator; Data envelopment analysis; Composite indicators	Bala Subrahmanya M.H., Mathirajan M., Krishnaswamy K.N.	7 ▲	3
EC #105	Brain computer interface; Bioelectric potentials; Personnel training	Ramakrishnan A.G., Urala K.B., Mohamed S.	5 ▲	7
EC #106	Drops; Surface active agents; Surface tension	Ganesan S., Rajasekaran S., Venkatesan J.	6 ▲	30
EC #107	Classification (of information); Classifiers; Labels	Narasimhan H., Agarwal S., Sastry P.S.R.S.	11 ▲	23
EC #108	Liposomes; Transfection; Lipids	Bhattacharya S., Kondaiah P., Misra S.K.	19 ▲	206
EC #109	Mycobacterium tuberculosis; Tuberculosis; Proteins	Balaji K.N.A., Verma-Kumar S., Bansal K.	9 ▼	78
EC #110	Magnetic recording; Bits; Intersymbol interference	Srinivasa S.G., Matcha C.K., Kashyap N.	17 ▲	43
EC #111	Gels; Gelation; Self assembly	Bhattacharya S., Samanta S.K.A., Bhattacharjee S.	28 ▲	325
EC #112	Catalysts; Water gas shift; Catalyst activity	Madras G., Hegde M.S., Shinde V.M.	23 ▼	192
EC #113	Public policy; energy; Rural areas	Balachandra P., Venkataram P., Gurtoo A.	13 ▼	69
EC #114	Photoluminescence; Luminescence; Europium	Shivakumara C., Krupanidhi S.B., Rajpalke M.K.	6 ▲	79
EC #115	Uncertainty principle; Fourier transform; Operator	Thangavelu S., Naidu D.V., Jotsaroop K.	8 ▲	8
EC #116	Alloys; Enthalpy; Thermodynamics	Srivastava C., Jacob K.T., Gupta P.K.	20 ▼	60
EC #117	electrostatics; interactions; molecules	Arunan E., Mani D., Guru Row T.N.	25 ▲	201
EC #118	Clustering algorithms; Algorithms; Optimization	Senthilnath J., Omkar S.N., Mani V.K.	10 ▲	220
EC #119	Wnt Proteins; Inflammation; Macrophages	Chandra N.R., Sambarey A., Prashanthi K.	2 ▼	26
EC #120	Cloud computing; Wireless sensor networks; Clouds	Patnaik L.M., Simmhan Y.L.	4 ▲	1
EC #121	Computer aided design; Algorithms; Bone	Gupta R.K., Gurumoorthy B., Kiran B.R.	4 ▼	13
EC #122	Nanowires; Silicon; Vapors	Pratap R., Talukder S., Kumar P.	6 ▲	11
EC #123	form factors; pions; quantum chromodynamics	Ananthanarayan B., Imsong I.S., Sentitemsu Imsong I.	6 ▼	25
EC #124	Zinc oxide; Photoluminescence; Electroluminescence	Nanda K.K., Reddy N.K., Deka A.	7 ▲	54
EC #125	Mitochondrial Membranes; Mitochondria; Mitochondrial Proteins	D'Silva P.R., Sinha D.P., Srivastava S.	10 ▲	47
EC #126	Density functional theory; Discrete Fourier transforms; Ligands	Jemmis E.D., Samuelson A.G., Thenraj M.	7 ▲	19

EC #127	Unmanned aerial vehicles (UAV); Controllers; Dynamics	Padhi R., Tripathi A.K., Raja R.G.	14 ▼	51
EC #128	semiconductors (materials); quantum wells; electrons	Bhattacharya S.N., Bhattacharaya S., Bhattachrya S.	9 ▼	8
EC #129	Monolayers; Self assembled monolayers; Raman spectroscopy	Umapathy S., Samuel A.Z.A., Vasudevan S.	6 ▲	32
EC #130	Titanium dioxide; Photocatalysis; Nanobelts	Madras G., Ravishankar N., Nethravathi C.	11 ▲	160
EC #131	Ligands; DNA; DNA Cleavage	Anbu S., Karande A.A., Ravishankaran R.	8 ▼	84
EC #132	Feedback; Throughput; Scheduling	Mehta N.B., Francis J., Karthik A.	11 ▼	82
EC #133	Porifera; Rhenium; Alkaloids	Srikrishna A., Gowri V., Nagaraju G.	8 ▼	24
EC #134	Macrophages; Toll-Like Receptor 2; Cytokines	Balaji K.N.A., Holla S., Ghorpade D.S.	12 ▲	112
EC #135	Titanium dioxide; Photodegradation; Titanium	Raichur A.M., Modak J.M., Priya D.N.	8 ▼	50

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