

Indian Institute of Technology, Bombay

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Competencies

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Competencies of the Indian Institute of Technology, Bombay in

2015

 based on an analysis of publications over the period 2011-2015

Table

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Matrix

Filter competencies by

ID	Keywords	Most published authors	Publications	Citations
EC #1	collisions; ionic collisions; transverse momentum	Nandi B.K., Varma R., Koyithatta Meethalevedu G.	108	2,401
DC #2	Rocks; rock; slope	Singh T.N., Mukherjee S., Radhakrishna M.	97	653
DC #3	Sliding mode control; Controllers; Control	Bandyopadhyay B., Kamal S., Chalanga A.	82	163
DC #4	Ligands; Magnets; Magnetocaloric effects	Rajaraman G., Murugavel R., Singh S.K.	78	543
DC #5	Photovoltaic cells; Electric potential; Control	Agarwal V.K., Wandhare R.G., Sharma P.N.	41	76
DC #6	Jets; Heat transfer; Reynolds number	Srivastava A.K., Agrawal A.M.I.T., Bhapkar U.S.	22	94
EC #7	Optimization; Water; Scheduling	Bandyopadhyay S., Sahu G.C., Garg A.	35	165
DC #8	Neural networks; artificial neural network; model	Jothiprakash V., Ghosh S., Fathima T.A.	31	221
DC #9	Soils; reinforcement; soil	Choudhury D., Mandal J.N., Padade A.H.	61	189
DC #10	Dyes; Fluorescence; Boron Compounds	Ravikanth M.N., Lakshmi V.V., Chatterjee T.	65	590
DC #11	Noscapine; Cell Division; Tubulin	Panda D., Jindal B., Ray S.	29	160
EC #12	Alloys; Manganese; Martensitic transformations	Suresh K.G., Sahoo R., Nayak A.K.	28	85
EC #13	Amplifiers (electronic); CMOS integrated circuits; Shear waves	Singh D.N., Baghini M.S.H., Anvesha A.	7	2
DC #14	Antennas; Microstrip antennas; Bandwidth	Mukherjee J., Kumar G.D., Mishra S.K.	23	118
DC #15	Soils; Bearing capacity; footing	Viswanadham B.V.S., Mandal J.N., Dewaikar D.M.	20	54
EC #16	Dielectric resonators; Microwave antennas; Antennas	Patel P., Mukherjee J., Mukherjee B.	16	29
DC #17	Microchannels; Heat transfer; Boiling liquids	Agrawal A.M.I.T., Pradeep A.M., Varade V.V.	22	72
EC #18	Discrete wavelet transforms; Wavelet transforms; Hardware	Darji A.D., Chandorkar A.N., Merchant S.N.	13	8
EC #19	Wastewater; Paper and pulp mills; Effluents	Garg A., Yadav B.R., Dhakhwa S.	11	27
EC #20	Cyclization; Synthesis (chemical); Molecular Structure	Gharpure S.J., Kotha S., Namboothiri I.N.N.	17	62
DC #21	Ballistics; Composite materials; Projectiles	Naik N.K., Pandya K.S., Pothnis J.R.	25	131
DC #22	Synthesis (chemical); Cyclization; Alkenes	Namboothiri I.N.N., Maiti D., Maity S.K.	36	570
DC #23	Database systems; Applications; Data structures	Sudarshan S., Ramachandra K., Shah S.Y.	8	15
DC #24	Synthesis (chemical); Cycloaddition Reaction; Stereoisomerism	Fernandes R.A., Singh V.K., Mulay S.V.	46	238
EC #25	Reluctance motors; Torque; Motors	Fernandes B.G., Nikam S.P., Vandana R.	14	58
DC #26	Sensors; Biosensors; Fiber optic sensors	Mukherji S., Ramgopal Rao V., Punjabi N.	39	146
ID	Keywords	Most published authors	Publications	Citations
DC #27	Soils; soil; Engineers	Singh D.N., Mandal J.N., Uday K.V.	18	59
EC #28	Aldehydes; Catalysis; Enantioselectivity	Sunoj R.B., Reddi Y., Sharma A.K.	13	164
DC #29	Hysteresis; Hysteresis loops; Models	Baghel A.P.S., Kulkarni S.V., Samajdar I.D.	9	41
DC #30	Degradation; Stresses; Threshold voltage	Mahapatra S., Goel N., Mukhopadhyay S.	29	163
EC #31	Combustion; Combustors; Mixtures	Kumar S., Akram M., Deshpande A.A.	18	104
EC #32	Electrohydrodynamics; Electric fields; Drops	Thaokar R.M., Gambhire P., Deshmukh S.D.	20	72
EC #33	Solar energy; Photovoltaic cells; Wind	Bandyopadhyay S., Roy A., Kedare S.B.	13	44
EC #34	Boilers; Control; Controllers	Patwardhan S.C., Bhushan M., Rimal Rai K.	16	80

EC #32	Control; Control; Controllers	Patwardhan S.C., Choudhary S., Choudhary S.	10	▲	30
EC #35	Solar cells; Dyes; Electrodes	Misra D.S., Bajpai R., Roy S.	8	▼	170
EC #36	Urea; Protein Stability; Methylamines	Kishore N., Kumar N.D.M., Choudhary S.	13	▲	43
EC #37	Manufacture; Additives; Welding	Karunakaran K.P., Bapat V.P., Raghavender N.	11	▲	44
EC #38	Multi agent systems; Agents; Control	Doolla S., Nunna H.S.V.S.K., Kumar Nunna H.S.V.S.K.	12	▼	134
EC #39	Polarimeters; Synthetic aperture radar; Polarization	Rao Y.S.N.M., Shitole S., Bhattacharya A.K.	22	▲	19
EC #40	Hydration; Catalysts; Olefins	Fernandes R.A., Kattanguru P., Chaudhari D.A.	23	▲	196
EC #41	Linear systems; Polynomials; Trajectories	Belur M.N., Pillai H.K., Pal D.B.	23	▼	16
EC #42	Coatings; Thermal barrier coatings; Plasma spraying	Dusane R.O., Raja V.S., Kumar S.	10	▲	37
EC #43	Alkenes; Olefins; Rings (components)	Kotha S., Ali R., Shirbhatte M.E.	63	▲	391
EC #44	Organoselenium Compounds; Glutathione Peroxidase; Selenium	Singh H.B., Singh V.P., Selvakumar K.	16	▼	111
EC #45	Soils; Anchors; anchor	Choudhury D., Dewaikar D.M., Rangari S.M.	22	▼	79
EC #46	Fluorescence; Calixarenes; Metal ions	Rao C.P., Hinge V.K.U., Pathak R.K.U.	28	▼	377
EC #47	Membranes; Proton conductivity; Protons	Datta A., Iyer E.S.S., Bellare J.R.	14	▼	83
EC #48	Ligands; Nickel; carbenes	Ghosh P., Shaikh M.M., Rao M.	25	▲	156
EC #49	Geothermal fields; geothermal system; thermal spring	Chandrasekharam D., Singh H.K.U., Trupti G.	15	▲	27
EC #50	Crosswalks; Vehicles; Intersections	Patil G.R., Kadali B.R., Pawar D.S.	8	▲	9
EC #51	Phase change materials; Heat storage; Heat transfer	Sharma A., Gada V.H., Lakdawala A.M.	21	▲	73
EC #52	Urinary Bladder; Urinary Bladder, Overactive; Interstitial Cells of Cajal	Manchanda R., Appukuttan S., Mahapatra C.	7	▲	4
EC #53	Ligands; Hydroformylation; Palladium	Balakrishna M.S., Ananthnag G.S., Siddiqui M.M.	35	▲	165
EC #54	Microtubules; Tubulin; Guanosine Triphosphate	Padinhateeri R., Das D.K.U., Das D.	12	▲	54
EC #55	Jamming; Scheduling; Radio	Dey B.K., Budkuley A.J., Pillai S.R.B.	15	▲	5
EC #56	Lithium; Tritium; Breeder reactors	Vinjamur M., Mandal D., Mandal D.	8	▼	66
EC #57	Germanium; Ligands; Synthesis (chemical)	Rajaraman G., Sharma S.C., Singh H.B.	7	▲	33
EC #58	Feedback; Robust control; Controllers	Nataraj P.S.V., Patil M.D., Jeyasenthil R.	14	▲	22
EC #59	transverse momentum; partons; production	Mukherjee A., Nandi B.K., Varma R.	24	▼	126
EC #60	Semiconductor quantum dots; quantum dots; Photoluminescence	Chakrabarti S., Adhikary S., Ghadi H.	35	▲	112
EC #61	Nanoparticles; clusters; potential	Bahadur D., Sahu N.K.U., Jaiswal M.K.	13	▲	122
EC #62	science; model; student	Murthy S.K., Mavinkurve M., Kenkre A.B.	9	▲	1
EC #63	Ferrite; Magnetization; Magnetic properties	Prasad S.V.G.V.A., Venkataramani N., Bohra M.	24	▲	113
EC #64	Kalman filters; Estimation; Covariance matrix	Patwardhan S.C., Bavdekar V.A., Deshpande A.P.	9	▼	82
ID	Keywords	Most published authors	Publications		Citations
EC #65	Glycosylation; Disaccharides; Lipopolysaccharides	Kulkarni S.S., Emmadi M., Jana S.	12	▲	56
EC #66	Silicon; Solar cells; Passivation	Kottantharayil A., Saseendran S.S., Kottantharayil A.	7	▲	3
EC #67	Energy storage; Control; Controllers	Agarwal V.K., Shreelakshmi M.P., Thale S.S.	6	▼	12
EC #68	Cracks; Damage detection; Structural health monitoring	Mitra M., Mujumdar P.M., Yelve N.P.	8	▲	8
EC #69	electrons; models; excitation	Shukla A.K., Chakraborty H., Gundra K.	13	▼	48
EC #70	Implied volatility; Volatility; Realized volatility	Padhi P., Shaikh I.	8	▲	41
EC #71	student; Students; course	Iyer S.R., Pal Y., Khaparde S.A.	6	▲	4
EC #72	Towers; Damping; Earthquakes	Jangid R.S., Sinha R., Narkhede D.I.	7	▲	18
EC #73	Amyloid; alpha-Synuclein; Proteins	Maji S.K., Ghosh D., Jacob R.S.	16	▲	114
EC #74	Magnetocaloric effects; Entropy; Magnetization	Suresh K.G., Gupta S.B., Pal L.	22	▲	91
EC #75	Stress corrosion cracking; Magnesium alloys; Hydrogen embrittlement	Raja V.S., Padekar B.S., Pustode M.D.	9	▲	45
EC #76	Surface waves; Damage detection; Structural health monitoring	Mitra M., Mujumdar P.M., Bijudas C.R.	14	▼	43
EC #77	Wind power; Wind; Electric utilities	Khaparde S.A., Ravikumar G.V.V., Joshi R.K.	7	▲	17
EC #78	Electrostatic actuators; MEMS; Electrostatics	Pawaskar D.N., Joglekar M.M., Kulkarni S.S.	9	▼	58
EC #79	Escherichia coli; Gene expression; Growth	Malakar P., Venkatesh K.V., Karmakar R.	11	▲	26
EC #80	Semantics; Computational linguistics; Linguistics	Bhattacharyya P., Balamurali A.R., Sharma R.	3		9

EC #81	Malaria; Plasmodium vivax; India	Srivastava S., Ray S.K., Patankar S.	17 ▲	209
EC #82	Granular materials; separation; flow	Khakhar D.V., Tripathi A.K., Gharat S.H.	7 ▼	45
EC #83	Solar energy; Solar collectors; Efficiency	Bandyopadhyay S., Desai N.B., Kedare S.B.	12 ▲	28
EC #84	Electric potential; DC-DC converters; Photovoltaic cells	Agarwal V.K., Chatterjee K., Duttagupta S.P.	9 ▲	10
EC #85	Fluorescence; Metal ions; Ions	Rao C.P., Mitra A., Areti S.	7 ▼	58
EC #86	Polymers; Receptor, IGF Type 2; Cyclization	Sasidhar Y.U., Shukla R.T., Chakrabarti R.	6 ▲	11
EC #87	Model checking; Algorithms; Computability and decidability	Trivedi A., Krishna S.N., Manasa L.	5 ▲	2
EC #88	Tuberculosis; Isoniazid; Antitubercular Agents	Wangikar P.P., Singh M.P.V.V., Gupta V.H.	4 ▼	30
EC #89	Productivity; Exporting; Firms	Kathuria V., Narayanan K.V.	6 ▼	8
EC #90	Plasmons; polaritons; coupling	Vasa P., Singh M.S.	11 ▲	89
EC #91	Decision making; sustainable development; sustainability	Asolekar S.R., Kalbar P.P., Karmakar S.	4 ▼	30
EC #92	Perovskite; Solar cells; Conversion efficiency	Sarkar S.K., Subbiah A.S., Chowdhury A.A.	9 ▲	102
EC #93	Data storage equipment; Virtual reality; Program processors	Kulkarni P.T., Mishra D., Bellur U.	6 ▲	13
EC #94	electricity; energy; poverty	Sukhatme S.P., Bandyopadhyay S., Bade M.H.	6 ▼	35
EC #95	Electric discharge machining; Machining; Electrodes	Joshi S.S., Singh R.K.P., Mastud S.A.	7 ▼	13
EC #96	Cyanothece; Cyanobacteria; Photosynthesis	Wangikar P.P., Gaudana S.B., Krishnakumar S.	14 ▲	45
EC #97	Image segmentation; Clustering algorithms; Algorithms	Buddhiraju K.M., Banerjee B., Varma S.	6 ▼	13
EC #98	ligands; oxidation; reduction (chemistry)	Lahiri G.K.U., Mobin S.M., Agarwala H.	40 ▼	315
EC #99	Germanium; Doping (additives); Chemical activation	Lodha S., Bhatt P., Kothari S.	14 ▲	64
EC #100	Multiwalled carbon nanotubes (MWCN); Carbon nanotubes; Percolation (computer storage)	Bhattacharyya A.R., Panwar A.S., Poyekar A.V.	12 ▲	63
EC #101	Galerkin methods; Local discontinuous Galerkin method; Integrodifferential equations	Pani A.K., Yadav S.K., Goswami D.	7 ▲	11
EC #102	Heat transfer; Heat transfer coefficients; Tubes (components)	Prabhu S.V., Agrawal A.M.I.T., Bhadouriya R.A.M.B.I.R.	4 ▲	5

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