

# Indian Institute of Technology, Delhi

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Competencies

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Competencies of the Indian Institute of Technology, Delhi in [2015](#) based on an analysis of publications over the period 2011-2015

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ID	Keywords	Most published authors	Publications	Citations
DC #1	Electric potential; Power quality; Asynchronous generators	Singh B.N., Singh B.P., Arya S.R.	250	665
DC #2	Supply chains; Supply chain; Industry	Shankar R.B., Sushil P., Banwet D.K.	110	450
DC #3	Fabrics; Yarn; Textiles	Das A.K., Kothari V.K., Ishtiaque S.M.	148	280
DC #4	Optical communication; Atmospheric turbulence; Turbulence	Bhatnagar M.R., Kar S., Jain V.K.	93	415
DC #5	Electric power factor correction; Electric potential; Brushless DC motors	Singh B.N., Bist V., Bhuvaneswari G.	120	347
DC #6	Fibers; Photonic crystal fibers; Wavelength	Sharma A.K., Sharma D.K., Kumar A.R.A.	55	178
EC #7	Economics; Optimization; Algorithms	Panigrahi B.K.E., Pandi V.R., Abhyankar A.R.	34	207
DC #8	Solar heating; Water; Desalination	Kaushik S.C., Tiwari G.N., Kalidasa Murugavel K.	67	566
DC #9	Drying; Photovoltaic cells; Solar energy	Tiwari G.N., Singh S.P., Kumar S.S.	69	616
EC #10	Wind power; Wind turbines; Wind	Mishra S., Senroy N., Sekhar P.C.	33	89
EC #11	Wind power; Wind turbines; Wind	Singh B.N., Vyas A.L., Adhikari N.	15	59
DC #12	Carbon nanotubes; Field emission; Catalysts	Vankar V.D., Shukla A.K., Sharma H.D.	36	130
DC #13	air quality; atmospheric pollution; pollutant	Goyal P., Khare M., Gulia S.	60	277
DC #14	Approximation algorithms; Algorithms; Polynomials	Kumar A.R., Jaiswal R., Sen S.	33	86
DC #15	Peptide Hydrolases; Enzymes; Hydrogen-Ion Concentration	Gupta M.N., Mukherjee J., Khare S.K.	51	370
DC #16	Solar energy; Solar radiation; Electricity	Kandpal T.C., Mullick S.C., Sharma C.S.	21	45
DC #17	Finishing; Abrasives; Polishing	Pandey P.M., Lijesh K.P., Hirani H.	62	324
DC #18	Fuzzy sets; Entropy; Decision making	Hanmandlu M.H., Mishra S., Chaira T.	24	239
EC #19	Electric power distribution; Losses; Optimization	Panigrahi B.K.E., Thomas M.S., Kumar P.	7	12
DC #20	plasmas (physics); Plasmas; lasers	Sharma R.P., Singh R.K.I., Tripathi V.K.	64	176
DC #21	Field effect transistors; Tunnels; Drain current	Kumar M.J., Kumar M.J., Vishnoi R.	45	258
DC #22	Supply chains; Supply chain management; Decision making	Shankar R.B., Banwet D.K., Yadav S.S.	25	229
EC #23	regional climate; climate modeling; simulation	Dash S.K., Pattnayak K.C., Mamgain A.	23	80
EC #24	Carbon films; Films; Nanoindentation	Dwivedi N., Malik H.K.	19	226
EC #25	Shielding; Signal interference; Electromagnetic pulse	Choudhary V.N., Saini P.K., Verma P.	30	487
DC #26	Soft switching; DC-DC converters; Electric potential	Veerachary M., Reddy B.A., Raghuwanshi H.	43	79
ID	Keywords	Most published authors	Publications	Citations
DC #27	Structural health monitoring; Sensors; Piezoelectricity	Bhalla S., Anand S.P., Kaur N.	38	118
EC #28	Controllers; Control; Electric power system interconnection	Ibraheem, Hasan N., Nizamuddin H.	18	102
DC #29	Ligands; Palladium; Catalysts	Singh A.K.U., Kumar A.R.A., Rao G.	48	465
DC #30	magnetohydrodynamic waves; plasmas (physics); solar wind	Sharma R.P., Yadav N., Modi K.V.	53	52
DC #31	Jets; Heat transfer; Reynolds number	Dewan A., Kohli S., Premachandran B.	10	43
EC #32	Recommender systems; Location; Social networking (online)	Kaushik S.C., Tiwari S., Jagwani P.	8	3
EC #33	Earthquakes; Pendulums; Bearings (machine parts)	Matsagar V.A., Saha S.K., Sahoo D.R.	16	20
EC #34	columns; Columns (structural); Soils	Shahu I.T., Sharma K.G., Reddy Y.R.	5	28

EC #34	Columns; Columns (structure); Joints	Sharma J.P., Sharma R.S., Reddy T.N.	2	▲	20
EC #35	Magnetite; transition; Magnetoresistance	Chaudhary S., Pandya D.K., Kumar A.S.	8	▼	30
EC #36	Brakes; Friction materials; Friction	Satapathy B.K., Kumar M., Bijwe J.	25	▼	142
EC #37	Ionic liquids; Micelles; Surface active agents	Pandey S.D., Trivedi S., Rai R.	19	▼	128
EC #38	Plant layout; Facilities; Optimization	Singh S.P.N., Shankar R.B.	6	▼	24
EC #39	Pressure sensors; MEMS; Diaphragms	Panwar B.S., Rathore P.K., Chandra S.	13	▲	43
EC #40	Fabrics; Cotton fabrics; Titanium dioxide	Agrawal A.K., Jassal M., Sharma B.C.	7	▼	29
EC #41	Inclusion Bodies; Protein Refolding; Recombinant Proteins	Gupta M.N., Gautam S.S., Dubey P.	12	▼	54
EC #42	Thermography (imaging); Thermography (temperature measurement); Thermal printing	Tuli S., Chatterjee K., Mulaveesala R.	17	▲	68
EC #43	Solar radiation; Neural networks; Sun	Malik H., Mishra S., Kamthania D.	14	▲	64
EC #44	Steam reforming; Hydrogen production; Catalysts	Pant K.K., Mohanty P., Naik S.N.	10	▲	93
EC #45	Coercive force; Antiferromagnetism; Anisotropy	Chaudhary S., Fulara H., Kashyap S.C.	12	▼	40
EC #46	monsoon; rainfall; climate change	Mohanty U.C., Verdhen A., Chahar B.R.	11	▼	72
EC #47	Projectiles; Ballistics; Steel	Gupta N.K., Hegde S., Ahmad S.S.E.	10	▼	27
EC #48	Indium; Nanowires; Oxides	Singh J.P., Mehta B.R., Yadav K.	9	▲	21
EC #49	Wind power; Wind; Buses	Bijwe P.R., Abhyankar A.R., Panigrahi B.K.E.	15	▲	33
EC #50	Composite materials; Laminates; Velocity	Mahajan P.M., Bhatnagar N., Namala K.K.	6	▲	5
EC #51	Ligands; Synthesis (chemical); Derivatives	Elias A.J., Kumar D.K.A.P., Singh N.D.P.	23	▲	72
EC #52	Biometrics; Database systems; Algorithms	Hanmandlu M.H.	7	▼	3
EC #53	Engines; Hydrogen; Combustion	Das L.M., Babu M.K.G., Sandhu S.S.	12	▲	15
EC #54	Catalysts; Oxidation; Catalytic oxidation	Mehta B.R., Sengar S.K., Saroha A.K.	14	▲	54
EC #55	Models; Damping; Stiffness matrix	Modak S.V., Pradhan S.K., Gupta K.N.	14	▼	45
EC #56	Thyristors; Electric potential; Reactive power	Singh B.N., Kadagala V.S., Singh B.P.	10	▼	11
EC #57	Biometrics; Database systems; Authentication	Hanmandlu M.H., Kumar A., Gupta H.M.	15	▼	45
EC #58	Bearings (machine parts); Rolling; Ball bearings	Tandon N., Pandey R.K., Darpe A.K.	8	▲	21
EC #59	Surface plasmon resonance; Plasmons; Sensors	Gupta B.D., Mishra S.K., Tabassum R.	64	▲	464
EC #60	Hydrazine; Color; Photochromism	Butola B.S.I., Joshi M.R., Chowdhury M.A.	5	▼	5
EC #61	beams (radiation); vortices; Vortex flow	Senthilkumaran P., Bahl M., Singh B.K.	13	▲	39
EC #62	Maintenance; Preventive maintenance; Costs	Kulkarni M.S., Asjad M., Gandhi O.P.	10	▲	36
EC #63	weather; model; research	Gupta M., Mohanty U.C., Osuri K.K.	26	▲	139
EC #64	Cryptography; security; images	Singh K.C., Sharma R.K., Mishra D.C.	10	▼	121
ID	Keywords	Most published authors	Publications		Citations
EC #65	Scheduling; Production; Optimization	Shaik M.A., Vooradi R., Rathore A.S.	8	▼	21
EC #66	Exergy; Power plants; Efficiency	Kaushik S.C., Siva Reddy V.S., Hegde S.	7	▼	115
EC #67	Anions; Negative ions; Fluorides	Haridas V., Sahu S., Pandey P.S.	8	▼	95
EC #68	Neural networks; Models; Thyristors	Mathur S.K., Panigrahi B.K.E., Ch S.	10	▼	52
EC #69	Stability; Buckling; Dynamics	Pradyumna S., Patel B.P., Kumar A.	5	▼	23
EC #70	Shrinkage; Nonlinear systems; Synchronization	Kar I.N., Kar I.N., Sharma B.B.	8	▼	21
EC #71	Echolocation; Dolphins; Hydrophones	Bahl R., Das A.	9	▲	1
EC #72	superconductivity; superconductors (materials); iron	Ganguli A.K., Thakur G.S., Prakash J.	10	▼	14
EC #73	Interferometry; Holographic interferometry; Holography	Shakher C., Kumar M.S., Kumar V.	22	▲	53
EC #74	3-Hydroxybutyric Acid; Polyhydroxyalkanoates; Carbon	Gahlawat G., Srivastava A.K.	4	▼	15
EC #75	Reliability; Availability; Repair	Dharmaraja S., Dharmaraja S., Gupta V.K.	12	▼	18
EC #76	Outsourcing; Industry; Security of data	Gupta M.P., Jain V.K., Samvedi A.	3	▼	15
EC #77	Least-Squares Analysis; Design; Screening	Rathore A.S., Mendhe R.B., Pathak M.	32	▲	156
EC #78	Anodes; Solid oxide fuel cells (SOFC); Ethanol	Basu S., Goel J., Tayal J.	13	▲	119
EC #79	Bamboo; Mechanical properties; Bending strength	Chaaruchandra K., Chariar V.M., Kandya A.K.	7	▼	37
EC #80	Enzymes; Salts; Hydrogen-Ion Concentration	Khare S.K., Sinha R.K., Kumar S.N.	12	▲	73

EC #81	Communication; Communication systems; Orthogonal frequency division multiplexing	Bhatnagar M.R., Mallik R.K., Mathur A.	13 ▲	26
EC #82	thunderstorm; monsoon; weather	Mohanty U.C., Kiran Prasad S., Litta A.J.	6 ▼	19
EC #83	Asparaginase; Asparagine; Enzymes	Kundu B., Tomar R., Srivastava A.	6 ▲	17
EC #84	monsoon; rainfall; summer	Mohanty U.C., Acharya N., Kulkarni M.A.	16 ▼	100
EC #85	VLSI circuits; Routers; Topology	Ansari A.Q., Sarangi S.R., Sultan H.	6 ▼	3
EC #86	Biodiesel; Diesel engines; Fuels	Subramanian K.A., Chintala V., Lahane S.	14 ▲	96
EC #87	technology transfer; clean development mechanism; technology	Sagar A.D., Chel A., Kaushik G.	7 ▲	23
EC #88	Molybdenum oxide; Chemical sensors; Nanobelts	Reddy G.B., Sharma R.K., Mehta B.R.	7 ▲	13
EC #89	Nanoparticles; Drug Carriers; Drug delivery	Mohanty S., Koul V., Lale S.V.	16 ▲	54
EC #90	Topology; Wireless sensor networks; Algorithms	Panda B.S., Pandey A., Shetty D.P.	12 ▲	10
EC #91	Proton conductivity; Ethers; Oligomers	Choudhary V.N., Gupta D., Gupta B.D.	6 ▼	44
EC #92	Graphene; Carbon nanotubes; Molecular dynamics	Gajbhiye S.O., Singh S.P., Singh S.P.	8 ▲	12
EC #93	humor; Schools; Students	Singh K.N., Junnarkar M., Singh K.	3 ▲	4
EC #94	Nanoparticles; Solar cells; Surface plasmon resonance	Komarala V.K., Chander N., Thouti E.	12 ▲	65
EC #95	Reconfigurable architectures; Mapping; Hardware	Paul K.T., Moghaddam M.S., Balakrishnan M.	7 ▼	17
EC #96	Concretes; Fibers; Shrinkage	Bhattacharjee B., Sahoo D.R., Kumar A.R.S.	7 ▲	0
EC #97	Mycobacterium tuberculosis; Tuberculosis; Mycobacterium	Hasnain S.E., Singh Y., Kohli S.	7 ▼	65
EC #98	Oils, Volatile; essential oils; Houseflies	Malik A.R., Mishra S., Kumar P.T.	10 ▼	161
EC #99	Disasters; Humanitarian logistics; Logistics	Charan P., Shankar R.B., Gupta R.	4 ▲	0
EC #100	Nanoparticles; Biosynthesis; Metal Nanoparticles	Khare S.K., Sinha A., Mittal A.K.	6 ▼	35
EC #101	Distribution system; food; PDS	Khera R., Sushil P., Suri P.K.	10 ▲	95
EC #102	Control; Programmable logic controllers; Automation	Thomas M.S., Prakash A., Ibraheem	5 ▼	9
ID	Keywords	Most published authors	Publications	Citations
EC #103	Digital arithmetic; Field programmable gate arrays (FPGA); Adders	Paul K.T., Balakrishnan M., Rawat K.	6 ▲	6
EC #104	Withania; HSP90 Heat-Shock Proteins; Withanolides	Sundar D., Grover A.G., Bisaria V.S.	11 ▼	102
EC #105	Cements; Clay; Compressive strength	Bishnoi S., Joseph A.M., Parashar A.	7 ▲	2
EC #106	Vibration control; Actuators; Piezoelectric actuators	Nanda N., Kapuria S., Yasin M.Y.	14 ▼	42
EC #107	Leadership; Leaders; Leadership behavior	Sinha S.	3 ▲	13
EC #108	Explosives; Explosions; Soils	Matsagar V.A., Chakraborty T., Tiwari R.	14 ▲	39
EC #109	Decoding; Reed-Solomon codes; Errors	Sharma A.K., Sharma A., Srivastava J.B.	6 ▲	12
EC #110	woman; Women; Turkey	Tara S., Vigneswara Ilavarasan P., Ilavarasan P.V.	3 ▼	6
EC #111	Solar cells; Zinc oxide; Cadmium sulfide	Dutta V.P., Ji A., Pathak N.K.	9 ▲	87
EC #112	Outsourcing; Transaction cost economics; Hotels	Sakhuja S., Kar A.K., Jothamani D.	3 ▲	0
EC #113	Electrospinning; Nanofibers; Hydroxyapatite	Agrawal A.K., Jassal M., Gupta D.B.	6 ▲	19
EC #114	Buckling; Steel; Earthquakes	Sahoo D.R., Ghowsi A.F., Pandikkadavath M.S.	5 ▲	4
EC #115	Holograms; images; Holographic displays	Khare K., Joseph J.D., Singh M.K.	12 ▲	51
EC #116	Beauveria bassiana; Musca domestica; Beauveria	Malik A.R., Mishra S., Kumar P.T.	6 ▼	26
EC #117	Focused ion beams; Diamonds; Ion beams	Rao P.V.M., Aravindan S., Bhavsar S.N.	4 ▲	11