

# Indian Institute of Technology, Kanpur

302nd (QS <sup>↗</sup>) · 401-500 (THE <sup>↗</sup>) | [India](#) | [More details on this Institution](#)

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

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

[Browse competencies](#)   [Search for competencies](#)

## Browse competencies

[Export](#) <sup>↗</sup>   [Shortcuts](#) <sup>↘</sup>

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

[Table](#)   [Circle](#)   [Matrix](#)

[Filter competencies by](#) <sup>↘</sup>

ID	Keywords	Most published authors	Publications	Citations
DC #1	Biometrics; Database systems; Feature extraction	Gupta P., Nigam A., Tiwari K.C.	68 <sup>▲</sup>	185
EC #2	Electric potential; Topology; Capacitors	Mishra S.K., Ray O., Joshi A.	29 <sup>▲</sup>	138
DC #3	transition; critical point; spin	Dutta A.K., Sharma S.K., Dutta A.	45 <sup>▼</sup>	186
EC #4	Field effect transistors; Transistors; Drain current	Ghosh B.S., Akram M.W., Asthana P.K.	52 <sup>▲</sup>	169
DC #5	Reynolds number; Cylinders (shapes); Fluids	Chhabra R., Nirmalkar N., Sasmal C.S.	78 <sup>▼</sup>	600
EC #6	Prey; Predator-prey model; Predator	Banerjee M., Chandra P.H., Gupta R.P.	31 <sup>▲</sup>	143
EC #7	spin; Orbits; graphene	Ghosh T.K.A., Ghosh B.S., Biswas T.S.	25 <sup>▲</sup>	50
EC #8	Parameter; Taylor; Maximum likelihood	Kundu D., Shalabh A., Mitra S.	37 <sup>▲</sup>	123
DC #9	Drops; Films; Polymers	Sharma A.B., Verma A.R., Biswas G.	49 <sup>▼</sup>	237
DC #10	Diesel engines; Engines; Fuels	Agarwal A.K., Gupta T., Srivastava D.K.	60 <sup>▲</sup>	490
EC #11	Electric discharge machining; Machining; Materials	Ramkumar J., Upadhyaya A.S., Karthikeyan G.	18 <sup>▼</sup>	57
DC #12	Singularly perturbed; Shishkin mesh; Singular perturbation	Kadalbajoo M.K., Jha A., Kumar B.V.R.	20 <sup>▼</sup>	18
EC #13	Jets; Reynolds number; Airfoils	Sarkar S., Anand K., Saha A.K.	14 <sup>▲</sup>	8
DC #14	Synthesis (chemical); Glycoside Hydrolases; Stereoisomerism	Vankar Y.D., Mahadevegowda S.H., Ansari A.A.	38 <sup>▲</sup>	295
DC #15	MIMO systems; Wimax; Radio	Jagannatham A.K., Parakh S., Sekhar G.C.	21 <sup>▼</sup>	11
EC #16	Forming; Sheet metal; Metal forming	Bhattacharya A.S., Reddy N.V., Asghar J.	10 <sup>▼</sup>	58
DC #17	Nanotubes; Microbial fuel cells; Density functional theory	Verma N.K., Choudhary S.R., Qureshi S.	31 <sup>▼</sup>	180
DC #18	pulses; control; Photons	Goswami D., Goswami D., Roy D.	28 <sup>▲</sup>	48
DC #19	Optimization; Algorithms; Particle swarm optimization (PSO)	Deb K., Bandaru S., Ahmed F.	34 <sup>▼</sup>	195
EC #20	Abrasives; Finishing; Polishing	Jain V.K., Sidpara A.M., Ramkumar J.	20 <sup>▼</sup>	146
DC #21	molecular dynamics; water; simulation	Chandra A.K., Karmakar A., Yadav V.K.U.	46 <sup>▲</sup>	189
DC #22	Cutting; Machining; Tools	Choudhury S.K., Chinchalikar S.S., Dhande S.G.	14 <sup>▼</sup>	105
EC #23	Bearing capacity; footing; Soils	Ghosh P., Basudhar P.K., Srinivasan V.S.	18 <sup>▼</sup>	47
EC #24	Dielectric resonators; Microwave antennas; Antennas	Srivastava K.V., Biswas A., Chaudhary R.K.	23 <sup>▼</sup>	40
DC #25	Metamaterials; Absorption; Frequency selective surfaces	Srivastava K.V., Bhattacharyya S., Ghosh S.K.	39 <sup>▲</sup>	115
DC #26	Microchannels; Heat transfer; Liquids	Khandekar S., Srinivasan V.S., Mehta B.	11 <sup>▲</sup>	52
ID	Keywords	Most published authors	Publications	Citations
DC #27	Ligands; Ions; Synthesis (chemical)	Chandrasekhar V., Goura J., Dey A.	49 <sup>▲</sup>	390
EC #28	Iridium; Ligands; Phosphorescence	Bera J.K., Chandrasekhar V., Hajra T.	17 <sup>▼</sup>	121
EC #29	Rayleigh-Benard convection; Rayleigh number; Prandtl number	Verma M.K., Chandra M., Pandey A.	14 <sup>▼</sup>	64
EC #30	exclusion; particles; models	Chowdhury D., Sharma A.K., Mukherji S.	15 <sup>▼</sup>	142
DC #31	Hydroxyapatite; Composite materials; Coatings	Balani K., Basu B., Sinha S.K.	26 <sup>▲</sup>	187
EC #32	Machining; Electric discharge machining; Plasmas	Thareja R.K., Gupta S.L., Singh R.P.	16 <sup>▼</sup>	30
DC #33	Ligands; Acids; Polymers	Bharadwaj P.K., Chandrasekhar V., Ahmad M.Y.	70 <sup>▲</sup>	687
EC #34	interfaces; Interfaces (materials); electron gas	Rudhani R C , Rastnoi A K , Hossain Z M	11 <sup>▲</sup>	80

EC #34	microwaves; microwaves (microwaves); vacuum gas	Subramaniam R., Dasgupta P., Dasgupta P.	11 ▲	30
EC #35	magnetic fields; flow; Magnetohydrodynamics	Verma M.K., Kumar R.R., Yadav R.K.	12 ▲	30
DC #36	Synthesis (chemical); Alkynes; Catalysis	Rao M.L.N., Dhanorkar R.J., Dasgupta P.	18 ▲	73
EC #37	Permittivity; Scattering parameters; Dielectric materials	Akhtar M.J., Akhter Z., Shaji M.	11 ▼	15
EC #38	Mortar; Compressive strength; Brick	Rai D.C., Dhanapal S., Singhal V.	10 ▲	18
EC #39	Microwaves; Permittivity; Dielectric materials	Jha A.K., Akhtar M.J., Ansari M.A.H.	11 ▲	14
EC #40	clusters; molecules; electrostatics	Gadre S.R., Sahu N.K., Yeole S.D.	30 ▼	237
EC #41	Nanoparticles; Magnetic properties; Magnetization	Rajeev K.P., Layek S., Subrahmanyam V.R.	9 ▼	39
DC #42	Jets; Nozzles; Mixing	Rathakrishnan E., Arun Kumar P., Saha A.K.	30 ▲	45
EC #43	Huntington Disease; Neurodegenerative Diseases; Proteins	Ganesh S., Thakur A.K.U., Singh S.V.	16 ▼	147
EC #44	Electric potential; Control; Electric power distribution	Singh S.N., Srivastava S.C., Kumar M.D.	6 ▲	4
EC #45	Translation; Translator; Translation studies	Chandran M.	3 ▲	0
EC #46	Tomography; Image reconstruction; reconstruction	Munshi P., Shakya S., Saxena A.	19 ▲	40
EC #47	Glossaries; Algorithms; Signal reconstruction	Venkatesh K.S., Gupta S.K., Ranjan R.	6 ▲	2
EC #48	Alkynes; Amines; Catalysis	Singh V.K.U., Dhanasekaran S., Ray S.K.	14 ▲	105
EC #49	Operator; Hilbert space; Isometry	Chavan S., Kumar S.	9 ▲	15
EC #50	Speech; Speech recognition; Microphones	Hegde R.M., Nathwani K., Kumar L.S.	12 ▼	5
EC #51	Plasmas; Display devices; Electron emission	Kumar J.V., Sarkar S., Kumar S.N.	8 ▼	30
EC #52	Antennas; Microstrip antennas; Circular polarization	Srivastava K.V., Sarkar D., Saurav K.	19 ▲	43
EC #53	Fabrication; Photoresists; MEMS	Sinha S.K., Bhattacharya S., Gupta A.	10 ▲	17
EC #54	ligands; Density functional theory; Discrete Fourier transforms	Moula G.M., Bose M., Sarkar S.	10 ▼	81
EC #55	Borides; Composite materials; Hardness	Parameswaran V., Basu B., Gupta N.P.	11 ▲	73
EC #56	Bubble formation; Liquids; Orifices	Biswas G., Sharma A.B., Ghoshdastidar P.S.	7 ▼	56
EC #57	Focused ion beams; Ion beams; Ions	Bhattacharjee S., Kulkarni V.N., Chowdhury A.K.	11 ▼	11
EC #58	Electricity; Profitability; Commerce	Singh S.N., Srivastava S.C., Kumar V.R.	6 ▲	5
EC #59	Ions; Surfaces; Drops	Rajput N.S., Shukla N., Verma H.C.	6 ▼	15
EC #60	microwaves; power spectra; asymmetry	Jain P., Rath P.K., Tiwari P.	16 ▲	55
EC #61	Bandpass filters; Resonators; Microwave filters	Biswas A., Awasthi S., Akhtar M.J.	13 ▲	16
EC #62	Electric potential; Matrix algebra; Control	Sensarma P.S., Subrahmanyam K.B., Jamatia A.	3 ▲	3
EC #63	Hydroxyapatite; Silver; Scaffolds	Dubey A.K.U., Basu B., Gupta R.K.	5 ▼	46
EC #64	Hydrogen bonds; crystals; rings	Faizi M.S.H., Sen P., Ahmad M.Y.	13 ▲	24
ID	Keywords	Most published authors	Publications	Citations
EC #65	measuring instruments; symmetry; transformations	Upadhyay S., Jain P., Nayak A.C.	11 ▲	19
EC #66	Control; Distillation; Distillation columns	Kaistha N., Jagtap R.A., Pathak A.S.	10 ▼	30
EC #67	Sintering; Microwaves; Powders	Upadhyaya A.S., Padmavathi C., Raja Annamalai A.	10 ▼	11
EC #68	Polymorphism; Crystal structure; Hydrogen bonds	Moorthy J.N., Bajpai A., Natarajan P.	11 ▲	45
EC #69	Alkaloids; Synthesis (chemical); Molecular Structure	Dethe D.H., Erande R.D., Das S.	5 ▲	26
EC #70	adenines; ligands; coordination	Verma S.K.U., Khanna S., Prajapati R.K.	24 ▼	164
EC #71	Epoxidation; Enantioselectivity; Epoxy Compounds	Moorthy J.N., Jhulki S., Parida K.N.	9 ▼	77
EC #72	Aerodynamics; Aircraft; Angle of attack	Ghosh A.K., Kumar R.A.P., Misra A.	5 ▼	6
EC #73	Compliant mechanisms; Shape optimization; Mechanisms	Saxena A., Kumar P., Deb K.	7 ▲	26
EC #74	Estimator; Estimation; Population	Misra N.N., Arshad M., Saxena S.	10 ▲	6
EC #75	Adsorbents; Adsorption; Removal	Vankar P.S., Shukla D., Dwivedi A.K.	4 ▼	28
EC #76	Control; Wheels; Vehicles	Potluri R., Singh A.K., Saurav K.	6 ▲	5
EC #77	Combustion; Combustors; Air	Mishra D.P., Jejurkar S.Y.	4 ▼	34
EC #78	Microstructure; Machining; Steel	Mondal K., Moon A., Sangal S.	10 ▲	29
EC #79	Laser cladding; Hardness; Steel	Manna I.	4 ▲	17
EC #80	Surface plasmon resonance; Waveguides; Plasmons	Tripathi S.M.	3 ▲	1

EC #81	Shape memory effect; Martensitic transformations; Martensite	Sangal S., Dube R.K., Vajpai S.K.	5 ▼	29
EC #82	Aziridines; Rings (components); Cyclization	Ghorai M.K., Nanaji Y., Tiwari D.P.	16 ▲	153