

Indian Institute of Technology, Madras

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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 Technology, Madras in [2015](#) ☐ based on an analysis of publications over the period 2011-2015

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Filter competencies by

ID	Keywords	Most published authors	Publications	Citations
DC #1	Nanoparticles; Graphene; Thermal conductivity	Ramaprabhu S., Tamilarasan P., Kaniyoor A.	103	1,582
DC #2	Jets; Nozzles; Heat transfer	Sen A.K., Prasad B.V.S.S.S., Pattamatta A.	25	86
EC #3	Speech recognition; Speech; Acoustics	Umesh S., Joshi V., Bilgi R.R.	31	57
DC #4	Heat transfer; Natural convection; Nusselt number	Basak T., Roy S.J., Anandalakshmi R.	78	442
DC #5	Deconvolution; Cameras; Algorithms	Rajagopalan A.N.A., Paramanand C., Rao M.	24	54
DC #6	Sensors; Capacitive sensors; Networks (circuits)	George B., Vanajakshi L.D., Kumar V.J.	38	42
DC #7	Piezoelectricity; Composite materials; Electric fields	Arockiarajan A., Jayendiran R., Ganesan N.	38	76
DC #8	Nanoclusters; Gold; Silver	Pradeep T.P., Udayabhaskararao T., Bootharaju M.S.	60	1,219
EC #9	Photovoltaic cells; Algorithms; Electric potential	Mishra M.K., Kollimalla S.K., Lakshminarasamma N.	8	35
DC #10	porous medium; Porous materials; nonaqueous phase liquid	Suresh Kumar G., Nambi I.M., Vasudevan M.	35	61
DC #11	Unit disk; Harmonic mapping; Analytic function	Ponnusamy S., Sairam Kaliraj A., Bharanedhar S.V.	36	160
EC #12	Friction stir welding; Friction; Aluminum alloys	Bauri R., Yadav D., Prasad Rao K.	19	130
DC #13	Protein Folding; Proteins; Protein Stability	Naganathan A.N., Gromiha M.M.M., Munshi S.	26	153
DC #14	Concretes; Reinforced concrete; Compressive strength	Murty C.V.R., Sengupta A.K., Menon D.	32	31
DC #15	Modulators; Bandwidth; Continuous time systems	Raina G., Pavan S., Manjunath S.	49	129
EC #16	Supply chains; Supply chain management; Public policy	Rajendran C., Kalpakam S., Saha S.	3	9
EC #17	decay; detectors; CP violation	Libby J., Nayak M., Behera P.K.	108	1,028
DC #18	Thermoacoustics; Combustors; Combustion	Sujith R.I., Nair V.V., Kabiraj L.	60	283
DC #19	clusters; apexes; nuclear magnetic resonance	Ghosh S., Roy D.K., Mondal B.	77	449
EC #20	Jets; Velocity; Fuels	Kurian J., Chakravarthy S.R., Mulla I.A.	14	14
EC #21	Ethanol; Fuels; Gasoline	Sundararajan T., Raghavan V., Ramesh A.A.	11	55
EC #22	Sulfides; Copper; Catalysts	Sekar G., Chakraborty D.P., Prasad D.J.C.	11	173
EC #23	Proton exchange membrane fuel cells (PEMFC); Diffusion in gases; Fuel cells	Haridoss P., Radhakrishnan V., John Felix Kumar R.	12	61
DC #24	Guided electromagnetic wave propagation; Pipe; Defects	Rajagopal P., Balasubramaniam K.S., Manogharan P.	18	32
EC #25	Hydrates; Gas hydrates; Hydration	Sangwai J.S., Mekala P., Mech D.	17	71
EC #26	Damping; Composite materials; Laminates	Velmurugan R., Balaganesan G., Gurusideswar S.	17	25
ID	Keywords	Most published authors	Publications	Citations
EC #27	Cyclization; Synthesis (chemical); Ions	Gharpure S.J., Porwal S.K., Chadha A.K.	9	74
EC #28	Power quality; Electric potential; Reactive power	Mishra M.K., Kumar C.U., Kumar M.V.M.	31	101
EC #29	Proteins; Binding Sites; Support Vector Machines	Gromiha M.M.M., Michael Gromiha M., Nagarajan R.	15	75
EC #30	Thermography (temperature measurement); Thermography (imaging); Thermal printing	Ramakrishnan S.S., Suganthi S.S., Balaji C.D.	23	55
EC #31	Ring opening polymerization; Ligands; Polymerization	Chakraborty D.P., Ramkumar V., Saha T.	22	134
EC #32	Remote sensing; Water; absorption coefficient	Shanmugam P., Tiwari S.P., Sundarabalan B.	12	69
EC #33	Reinforced concrete; Shear strength; Concretes	Rao G.A., Sundaresan R.I., Injaganeri S.S.	7	4
EC #34	Cutting; Milling (machining); Machining	Shunmugam M.S., Natarajan H., Samuel G.I.	11	34

EC #32	Turning; Milling (machining); Machining	Subramugan M., Natarajan U., Samuel G.L.	11 ▲	27
EC #35	sows; farrowing; piglets	Sivaprakasam M., George B., Mukherjee B.K.	8 ▲	13
EC #36	Logistics; Supply chains; Recycling	Narendran T.T., Ramkumar N., Subramanian P.	6 ▼	47
EC #37	Turning; Cutting; Machining	Samuel G.L., Vijayaraghavan L., Sivaraman V.	10 ▼	94
EC #38	Alcohols; Oxidation; Catalysts	Chadha A.K., Sekar G., Kotha S.S.R.	25 ▲	119
EC #39	Nitriles; Cyanides; Palladium	Anbarasan P., Chaitanya M., Sekar G.	4 ▲	47
EC #40	Graphene; Optical properties; Oxides	Ramaprabhu S., Vijayan C., Gupta J.R.	10 ▼	78
EC #41	Power quality; Electric potential; Control	Mishra M.K., Kumar B.K., Kumar G.S.	7 ▼	66
EC #42	Emulsions; Emulsification; Nanoparticles	Sangwai J.S., Sharma T., Suresh Kumar G.	14 ▲	68
EC #43	Fanconi Anemia; Cells; Antioxidants	Shyamsunder P., Verma R.S.H., Verma R.S.	7 ▲	14
EC #44	Brakes; Braking; Pneumatics	Subramanian S.C., Rajaram V., Mahanty S.	6 ▲	14
EC #45	Density (specific gravity); Volume measurement; Ionic liquids	Gardas R.L., Singh V.K., Chhotaray P.K.	20 ▲	83
EC #46	Engines; Cylinders (shapes); Cylinders (containers)	Mehta P.S., Rajagopal M.C., Ganesan V.S.	5 ▲	3
EC #47	Pulse Wave Analysis; Vascular Stiffness; Carotid Arteries	Sivaprakasam M., Joseph J.V., Sahani A.K.U.	18 ▲	20
EC #48	Ultrasonics; Transducers; Surface waves	Balasubramaniam K.S., Krishnamurthy C.V., Padiyar J.	15 ▼	62
EC #49	compressibility; Density (specific gravity); binary mixtures	Gardas R.L., Venkatramana L., Losetty V.	20 ▲	135
EC #50	Matrix; Linear complementarity problem; Moore-Penrose inverse	Sivakumar K.C., Mishra D., Jose S.	17 ▼	34
EC #51	Grain boundaries; Dynamic recrystallization; Microstructure	Subramanya Sarma V., Gandham P., Khalid Rafi H.K.	12 ▼	88
EC #52	Radial basis function networks; Functions; Interpolation	Sanyasiraju Y.V.S.S.S., Satyanarayana C., Agarwal S.	5 ▲	7
EC #53	Combustion; Fuels; Heat flux	Kumar A., Raghavan V., Kumar C.P.	11 ▼	14
EC #54	Jets; Nozzles; Mach number	Srinivasan K., Srinivasan K.S., Sundararajan T.	9 ▲	2
EC #55	density functional theory; carbazoles; Polycyclic aromatic hydrocarbons	Mishra A.K., Pati A.K.U., Gharpure S.J.	5 ▲	12
EC #56	Muscle; Electromyography; Fatigue of materials	Ramakrishnan S.S., Karthick P.A., Venugopal G.	21 ▲	35
EC #57	Welds; Welding; Stainless steel	Janaki Ram G.D.J., Puli R., Kumar E.N.	5 ▼	36
EC #58	Hydrogenation; Catalysts; Nitrobenzene	Raj K.J.A., Viswanathan B., Elangovan T.	3 ▼	7
EC #59	Ferrite; Zinc; Magnetic properties	Srinivas V., Malleth S., Subramanian V.S.	8 ▲	15
EC #60	Partial differential equations; Two dimensional; Diffusion	Sanyasiraju Y.V.S.S.S., Mishra N., Yedida S.V.S.S.	6 ▼	15
EC #61	Chaos theory; Polynomials; Expansion	Gupta S., Sarkar S., Venkatesh S.	14 ▲	25
EC #62	Self assembly; Lithocholic Acid; Gels	Chand D.K., Prasad E., Mishra A.K.	27 ▲	282
EC #63	Magnetization; Magnetic properties; Temperature	Murugavel P., Magesh J., Santhosh P.N.	11 ▼	30
EC #64	Plasmas; Electric propulsion; Pulsed plasma thrusters	Sarathi R., Vasa N.J., Sathiesh Kumar V.	9 ▲	10
ID	Keywords	Most published authors	Publications	Citations
EC #65	Waves; Tension-leg platforms; Offshore structures	Chandrasekaran S., Madhavi N., Madhuri S.	20 ▲	19
EC #66	Fretting corrosion; Fatigue of materials; Cracks	Prakash R.V., Anandavel K., Balasubramani P.P.	5 ▼	10
EC #67	Cobalt; Cobalt compounds; Oxides	Padhan P., Ravindra A.V., Behera B.C.	4 ▲	14
EC #68	Mechanical alloying; Milling (machining); Powders	Murty B.S., Susila P., Udhayabanu V.	11 ▼	30
EC #69	Rotors; Bearings (machine parts); Speed	Sekhar A.S., Padmanabhan C., Ganesan S.	3 ▲	2
EC #70	Water; Surface tension; Crude oil	Sangwai J.S., Gardas R.L., Sakthivel S.	9 ▲	20
EC #71	Surface roughness; Errors; Measurements	Ramamoorthy B., Samuel G.L., Nammi S.	9 ▲	20
EC #72	Liquids; Microchannels; Stability	Pushpavanam S., Picardo J.R., Usha R.	15 ▲	29
EC #73	Support vector machines; Classification (of information); Classifiers	Dileep A.D., Veena T., Chandra Sekhar C.	4 ▼	5
EC #74	Molecular dynamics; simulation; Computer simulation	Natarajan U., Chockalingam R., Sulatha M.S.	9 ▲	29
EC #75	Steel; Testing; Materials	Prakash R.V., Ramesh T.U., Subbiah A.	7 ▲	0
EC #76	Microstructure; Coatings; Spray steelmaking	Kumar R.V.R., Raghukiran N., Bakshi S.R.	5 ▲	14
EC #77	Image segmentation; Corpus Callosum; Magnetic resonance imaging	Ramakrishnan S.S.	13 ▲	2
EC #78	Ferroelectric materials; Lead; Magnetoelectric effects	Murty B.S., Murugavel P., Nayek C.	10 ▲	27
EC #79	Fluorescence; receptors (physiology); Ions	Ghosh S., Thakur A., Mandal D.	11 ▲	145
EC #80	Photoelasticity; Physical optics; Elasticity	Ramesh K.P., Neethi Simon B., Ramakrishnan V.	15 ▼	62

EC #81	Subthalamic Nucleus; Basal Ganglia; Parkinson Disease	Chakravarthy V.S., Balasubramani P.P., Gupte N.	13 ▲	51
EC #82	Diffusion Tensor Imaging; Anisotropy; Alzheimer Disease	Ramakrishnan S.S., Patil R.B., Piyush R.	6 ▲	7
EC #83	Soot; Combustion; Turbulence	Muruganandam T.M., Chakravarthy S.R., Rajesh Kanna N.	4 ▲	4

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