

# Krishan Kumar

## List of Publications by Year in descending order

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97  
papers

2,731  
citations

186209

28  
h-index

214721

47  
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97  
all docs

97  
docs citations

97  
times ranked

2809  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radioiodine Labeling Reagents and Methods for New Chemical Entities and Biomolecules. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2022, 37, 173-185.	0.7	2
2	Morphology, structural, dielectric and magnetic study of Ce <sup>3+</sup> ion doped Mg <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2-x</sub> Ce <sub>x</sub> O <sub>4</sub> (0.0 ≤ x ≤ 0.1) ferrite nanoparticles. <i>Materials Chemistry and Physics</i> , 2022, 289, 126482.	2.0	12
3	Ferrite application as an electrochemical sensor: A review. <i>Materials Characterization</i> , 2021, 178, 111269.	1.9	54
4	Cancer and non-cancer health risk assessment associated with exposure to non-methane hydrocarbons among roadside vendors in Delhi, India. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020, 26, 1285-1299.	1.7	7
5	Validation of a reversed-phase high-performance liquid chromatography (RP-HPLC) method for analysis of [ <sup>11</sup> C]Nicotine. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 1719-1725.	0.7	0
6	Design and optimization of junctionless-based devices with noise reduction for ultra-high frequency applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	9
7	One pot hydrothermal synthesis of ordered mesoporous SnO <sub>2</sub> /SBA-16 nanocomposites. <i>Journal of Porous Materials</i> , 2019, 26, 553-560.	1.3	13
8	BTEX Concentrations and Associated Health Risks at Urban Vegetative Sites in Delhi, India. <i>Environmental Claims Journal</i> , 2019, 31, 349-365.	0.5	5
9	Volumetric and FT-IR Studies of the Binary Liquid Mixtures of Tributylamine and Alkyl Ester (C <sub>1</sub> to C <sub>5</sub> ). <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 3213-3223.	1.0	11
10	Biogenic and anthropogenic isoprene emissions in the subtropical urban atmosphere of Delhi. <i>Atmospheric Pollution Research</i> , 2019, 10, 1691-1698.	1.8	17
11	Vocal Adjustments in Purple Sunbird ( <i>Cinnyris asiaticus</i> ) at Noisy Habitats. <i>Acta Acustica United With Acustica</i> , 2019, 105, 294-300.	0.8	2
12	Efficient synthesis, antitubercular and antimicrobial evaluation of 1,4-disubstituted 1,2,3-triazoles with amide functionality. <i>Monatshefte für Chemie</i> , 2019, 150, 1127-1136.	0.9	14
13	One-pot facile synthesis, crystal structure and antifungal activity of 1,2,3-triazoles bridged with amine-amide functionalities. <i>Synthetic Communications</i> , 2019, 49, 118-128.	1.1	19
14	Enhanced Sensing Performance of Relative Humidity Sensors Based on Mn/KIT-6 Hybrid Nanocomposite. <i>Sensor Letters</i> , 2019, 17, 213-218.	0.4	4
15	Synthetic Routes for 1,4-disubstituted 1,2,3-triazoles: A Review. <i>Current Organic Chemistry</i> , 2019, 23, 860-900.	0.9	23
16	Measurement and correlation of thermodynamic properties of amine and esters. <i>Journal of Molecular Liquids</i> , 2018, 259, 167-178.	2.3	15
17	Humidity sensing behavior of tin-loaded 3-D cubic mesoporous silica. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 101, 284-293.	1.3	21
18	Metal-Free, Regioselective, Dehydrogenative Cross-Coupling between Formamides/Aldehydes and Coumarins by C-H Functionalization. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 896-900.	1.2	15

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19	Distribution of VOCs in urban and rural atmospheres of subtropical India: Temporal variation, source attribution, ratios, OFP and risk assessment. <i>Science of the Total Environment</i> , 2018, 613-614, 492-501.	3.9	129
20	Prediction of Interactions between Binary Mixtures of Aliphatic Amines and Aliphatic Acetates. <i>Asian Journal of Chemistry</i> , 2018, 30, 2557-2566.	0.1	1
21	Synthesis and Antimicrobial Evaluation of (1-(Benzyloxy)ethoxyethyl)-1,2,3-triazole-4-methyl Benzoate Analogues. <i>Journal of Heterocyclic Chemistry</i> , 2018, 55, 1720-1728.	1.4	11
22	Seasonal variation in spectral global and direct solar irradiances over a megacity Delhi. , 2018, , .		1
23	Synthesis, antimicrobial activity, and QSAR studies of amide-ester linked 1,4-disubstituted 1,2,3-triazoles. <i>Monatshefte für Chemie</i> , 2017, 148, 765-779.	0.9	15
24	CO variability and its association with household cooking fuels consumption over the Indo-Gangetic Plains. <i>Environmental Pollution</i> , 2017, 222, 83-93.	3.7	7
25	Dynamic interaction of trace gases (VOCs, ozone, and NO <sub>x</sub> ) in the rural atmosphere of sub-tropical India. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 885-896.	1.5	33
26	Facile synthesis, characterization, and antimicrobial studies of some disubstituted 1,2,3-triazoles with sulfonamide functionality. <i>Synthetic Communications</i> , 2017, 47, 1485-1494.	1.1	11
27	Studies of volumetric, viscometric and molar properties of diisopropyl amine with 1-alkanols (C <sub>6</sub> –C <sub>12</sub> ) at 25–35 °C. <i>J. Chem. Thermodyn.</i> 2017, 49, 1078-1083.	1.0	7
28	In Vitro Antimalarial Evaluation of Piperidine- and Piperazine-Based Chalcones: Inhibition of Falcipain-2 and Plasmeprin II Hemoglobinases Activities from <i>Plasmodium falciparum</i> . <i>ChemistrySelect</i> , 2017, 2, 7684-7690.	0.7	11
29	Regioselective synthesis, characterization and antimicrobial evaluation of amide-ether linked 1,4-disubstituted 1,2,3-triazoles. <i>Journal of the Serbian Chemical Society</i> , 2017, 82, 995-1007.	0.4	2
30	Seasonal variability of aerosols and their characteristics in urban and rural locations of Delhi-NCR. , 2017, , .		0
31	Synthesis and antimicrobial evaluation of 1,4-disubstituted 1,2,3-triazoles with aromatic ester functionality. <i>Arabian Journal of Chemistry</i> , 2016, 9, 865-871.	2.3	28
32	Density, Speed of Sound, Viscosity, Excess Properties, and Prigogine–Flory–Patterson (PFP) Theory of Binary Mixtures of Amine and Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 1967-1980.	1.0	20
33	Statistical modeling of O <sub>3</sub> , NO <sub>x</sub> , CO, PM <sub>2.5</sub> , VOCs and noise levels in commercial complex and associated health risk assessment in an academic institution. <i>Science of the Total Environment</i> , 2016, 572, 586-594.	3.9	60
34	Dynamics of thermal inertia over highly urban city: a case study of Delhi. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
35	Spatial and temporal variability of VOCs and its source estimation during rush/non-rush hours in ambient air of Delhi, India. <i>Air Quality, Atmosphere and Health</i> , 2016, 9, 483-493.	1.5	25
36	Synthesis and antimicrobial evaluation of 1,4-disubstituted 1,2,3-triazoles containing benzofused N-heteroaromatic moieties. <i>Monatshefte für Chemie</i> , 2016, 147, 817-828.	0.9	29

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37	Evaluation of seasonal variations in abundance of BTXE hydrocarbons and their ozone forming potential in ambient urban atmosphere of Dehradun (India). <i>Air Quality, Atmosphere and Health</i> , 2016, 9, 95-106.	1.5	50
38	Spatial and temporal variability of surface ozone and nitrogen oxides in urban and rural ambient air of Delhi-NCR, India. <i>Air Quality, Atmosphere and Health</i> , 2015, 8, 391-399.	1.5	48
39	Synthesis, Characterization, and Antimicrobial Potential of Some 1,4-Disubstituted 1,2,3-Bistriazoles. <i>Synthetic Communications</i> , 2015, 45, 1977-1985.	1.1	18
40	Satellite and ground based seasonal variability of NO <sub>2</sub> and SO <sub>2</sub> over New Delhi, India. , 2015, , .		3
41	Analysis of temperature variability over north-west part of India for the period 1970â€“2000. <i>Natural Hazards</i> , 2015, 75, 935-952.	1.6	13
42	Ambient Noise Levels after CNG Implementation in Transport Sector in Delhi. , 2015, , 267-279.		1
43	Spatio-temporal variations of urban heat island over Delhi. <i>Urban Climate</i> , 2014, 10, 119-133.	2.4	49
44	An assessment of ozone levels, UV radiation and their occupational health hazard estimation during photocopying operation. <i>Journal of Hazardous Materials</i> , 2014, 275, 55-62.	6.5	41
45	Assessment of indoor air concentrations of VOCs and their associated health risks in the library of Jawaharlal Nehru University, New Delhi. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2240-2248.	2.7	73
46	Spectroscopic and antibacterial studies of new octaazamacrocyclic complexes derived from carbohydrazide and isatin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 243-247.	2.0	13
47	One-pot synthesis and cytotoxic evaluation of amide-linked 1,4-disubstituted 1,2,3-bistriazoles. <i>Medicinal Chemistry Research</i> , 2014, 23, 4761-4770.	1.1	27
48	Ozone distributions and urban air quality during summer in Agra â€“ a world heritage site. <i>Atmospheric Pollution Research</i> , 2014, 5, 796-804.	1.8	29
49	Non-Invasive Measurement of Carbon Monoxide in Rural Indian Woman Exposed to Different Cooking Fuel Smoke. <i>Aerosol and Air Quality Research</i> , 2014, 14, 1789-1797.	0.9	9
50	Studies of thermodynamic, thermophysical and partial molar properties of liquid mixtures of diethylenetriamine with alcohols at 293.15 to 313.15K. <i>Journal of Molecular Liquids</i> , 2013, 180, 164-171.	2.3	21
51	The effects of meteorological parameters in ambient noise modelling studies in Delhi. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 1873-1882.	1.3	8
52	Road Traffic Noise Attenuation by Vegetation Belts at Some Sites in the Tarai Region of India. <i>Archives of Acoustics</i> , 2013, 38, 389-395.	0.9	7
53	Gaseous/particulate bound polycyclic aromatic hydrocarbons (PAHs), seasonal variation in North central part of rural India. <i>Sustainable Cities and Society</i> , 2012, 3, 30-36.	5.1	38
54	A study of urban heat island and its association with particulate matter during winter months over Delhi. <i>Science of the Total Environment</i> , 2012, 414, 494-507.	3.9	81

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55	Studies of thermophysical properties of binary liquid mixtures of amine and alcohols at various temperatures. <i>Journal of Chemical Thermodynamics</i> , 2012, 50, 7-14.	1.0	28
56	Seasonal Variation and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Indoor and Outdoor Air in a Semi Arid Tract of Northern India. <i>Aerosol and Air Quality Research</i> , 2012, 12, 515-525.	0.9	102
57	Densities, Viscosities, and Speeds of Sound of Binary Liquid Mixtures of Ethylenediamine with Alcohols at $T = (293.15 \text{ to } 313.15) \text{ K}$ . <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 2995-3003.	1.0	36
58	Thermodynamic properties of binary liquid mixtures of diethylenetriamine with alcohols at different temperatures. <i>Thermochimica Acta</i> , 2011, 524, 7-17.	1.2	39
59	Size distribution and source apportionment of polycyclic aromatic hydrocarbons (PAHs) in aerosol particle samples from the atmospheric environment of Delhi, India. <i>Science of the Total Environment</i> , 2011, 409, 4674-4680.	3.9	61
60	Synthesis, spectroscopic studies and biological screening of 18-membered octaazamacrocyclic complexes derived from acetylacetone and thiocarbohydrazide. <i>Russian Journal of Inorganic Chemistry</i> , 2011, 56, 1396-1401.	0.3	2
61	A Wavelet-based Neural Network Model to Predict Ambient Air Pollutants' Concentration. <i>Environmental Modeling and Assessment</i> , 2011, 16, 503-517.	1.2	62
62	Spectroscopic studies and antibacterial activities of some new 16-membered octaazamacrocyclic complexes derived from thiocarbohydrazide and pentane-2,4-dione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 629-634.	2.0	6
63	Divalent metal macrocyclic complexes derived from acetylacetone and carbohydrazide with their spectroscopic and antibacterial studies. <i>Journal of Coordination Chemistry</i> , 2011, 64, 502-510.	0.8	13
64	Synthesis and characterization of divalent metal complexes of the macrocyclic ligand derived from isatin and 1,2-diaminobenzene. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 385-393.	0.4	8
65	Volumetric, acoustic, and viscometric studies of molecular interactions in binary mixtures of diethylene glycol monomethyl ether with 1-alkanols at temperatures from $(293.15 \text{ to } 308.15) \text{ K}$ . <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 234-243.	1.0	25
66	New 14-membered octaazamacrocyclic complexes of divalent transition metal ions with their antimicrobial and spectral studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 98-105.	2.0	22
67	Macrocyclic metal complexes derived from 2,6-diaminopyridine and isatin with their antibacterial and spectroscopic studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 76, 45-49.	2.0	43
68	New 14-membered octaazamacrocyclic complexes: Synthesis, spectral, antibacterial and antifungal studies. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 1230-1236.	2.6	70
69	Template synthesis and characterization of biologically active transition metal complexes comprising 14-membered tetraazamacrocyclic ligand. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 217-228.	0.4	16
70	Antibacterial and antifungal studies of macrocyclic complexes of trivalent transition metal ions with their spectroscopic approach. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010, 25, 21-28.	2.5	19
71	Template synthesis, spectroscopic, antibacterial, and antifungal studies of trivalent transition metal ion macrocyclic complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010, 25, 544-550.	2.5	10
72	Synthesis, Characterization, and Antimicrobial Activities of Macrocyclic Complexes of Divalent Transition Metal Ions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010, 40, 378-385.	0.6	4

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73	Synthesis, characterization and antibacterial and antifungal studies of some tetraazamacrocyclic complexes. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 1369-1380.	0.4	2
74	Template synthesis of macrocyclic complexes of Co(II), Ni(II), Cu(II), Zn(II) and Cd(II): Spectroscopic, antibacterial and antifungal studies. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 763-772.	0.4	21
75	Macrocyclic complexes of divalent transition metal ions derived from succinyldihydrazide and diacetyl with their antibacterial studies. <i>Journal of Coordination Chemistry</i> , 2010, 63, 3313-3321.	0.8	4
76	Volumetric and Viscometric Properties of Binary Liquid Mixtures of Ethylene Glycol Monomethyl Ether + 1-Hexanol, 1-Octanol, and 1-Decanol at Temperatures of $T = (293.15, 298.15, 303.15, \text{ and } 308.15) \text{ K}$	0.0	0
77	Synthesis, spectroscopic studies, and antibacterial activities of 14-membered tetraazamacrocyclic complexes of divalent transition metal ions. <i>Journal of Coordination Chemistry</i> , 2010, 63, 4007-4016.	0.8	7
78	Macrocyclic complexes: Synthesis and characterization. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 475-482.	0.4	11
79	Antimicrobial active macrocyclic complexes of Cr(III), Mn(III) and Fe(III) with their spectroscopic approach. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 3299-3304.	2.6	50
80	Biologically active macrocyclic complexes derived from diamidonaphthalene and glyoxal: Template synthesis and spectroscopic approach. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009, 24, 795-803.	2.5	19
81	Kinetics of isothermal and non-isothermal degradation of cellulose: model-based and model-free methods. <i>Polymer International</i> , 2008, 57, 722-729.	1.6	55
82	A study of the spectral characteristics of traffic noise attenuation by vegetation belts in Delhi. <i>Applied Acoustics</i> , 2006, 67, 926-935.	1.7	39
83	Forecasting Daily Maximum Surface Ozone Concentrations in Brunei Darussalam—An ARIMA Modeling Approach. <i>Journal of the Air and Waste Management Association</i> , 2004, 54, 809-814.	0.9	23
84	A predictive model of noise for Delhi. <i>Journal of the Acoustical Society of America</i> , 1998, 103, 1677-1679.	0.5	14
85	Non-Metal Redox Kinetics: Oxidation of Bromide Ion by Nitrogen Trichloride. <i>Inorganic Chemistry</i> , 1995, 34, 3536-3542.	1.9	13
86	A study of noise in various modes of transport in Delhi. <i>Applied Acoustics</i> , 1994, 43, 57-65.	1.7	25
87	Direct determination of self-exchange electron-transfer rate constants of nickel(III,II) complexes by nickel-61 ESR line broadening. <i>Inorganic Chemistry</i> , 1989, 28, 3481-3484.	1.9	13
88	Electronic and stereochemical factors contributing to the lability of trans-aquamethyl(tetraazamacrocyclic) cobalt(III) complexes. Kinetic and molecular mechanics studies. <i>Journal of the American Chemical Society</i> , 1989, 111, 7411-7420.	6.6	23
89	Nonmetal redox kinetics: oxidation of iodide by hypochlorous acid and by nitrogen trichloride measured by the pulsed-accelerated-flow method. <i>Inorganic Chemistry</i> , 1988, 27, 2773-2780.	1.9	70
90	Kinetics and mechanisms of the base decomposition of nitrogen trichloride in aqueous solution. <i>Inorganic Chemistry</i> , 1987, 26, 3430-3434.	1.9	35

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91	Kinetics and mechanism of general-acid-assisted oxidation of bromide by hypochlorite and hypochlorous acid. <i>Inorganic Chemistry</i> , 1987, 26, 2706-2711.	1.9	284
92	Atom-transfer redox kinetics: general-acid-assisted oxidation of iodide by chloramines and hypochlorite. <i>Inorganic Chemistry</i> , 1986, 25, 4344-4350.	1.9	124
93	Kinetics of the iodine monochloride reaction with iodide measured by the pulsed-accelerated-flow method. <i>Inorganic Chemistry</i> , 1986, 25, 4900-4904.	1.9	16
94	Oxidation-reduction reactions of complexes with macrocyclic ligands. Electron-transfer reactivity of a 1:1 cobalt(II)-dioxygen adduct. <i>Inorganic Chemistry</i> , 1984, 23, 2447-2452.	1.9	26
95	Oxidation-reduction reactions of complexes with macrocyclic ligands. Kinetic and electrochemical studies of metal-ligand synergism. <i>Journal of the American Chemical Society</i> , 1983, 105, 56-61.	6.6	8
96	Oxidation-reduction reactions of complexes with macrocyclic ligands. Dependence of the rate advantage for the inner-sphere electron-transfer pathway on electronic structure for low-spin cobalt(III)-(II), nickel(III)-(II), and copper(III)-(II) couples. <i>Journal of the American Chemical Society</i> , 1983, 105, 7064-7074.	6.6	23
97	Electron-transfer reactivity in some simple cobalt(III)-cobalt(II) couples. Franck-Condon vs. electronic contributions. <i>Inorganic Chemistry</i> , 1983, 22, 3754-3762.	1.9	57