

Vinod Kumar

List of Publications by Year in descending order

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67
papers

1,467
citations

279798

23
h-index

361022

35
g-index

68
all docs

68
docs citations

68
times ranked

1543
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable synthesis of single crystalline sulphur-doped graphene quantum dots for bioimaging and beyond. <i>Green Chemistry</i> , 2018, 20, 4245-4259.	9.0	112
2	COVID-19-mandated social restrictions unveil the impact of social time pressure on sleep and body clock. <i>Scientific Reports</i> , 2020, 10, 22225.	3.3	105
3	Zn ²⁺ substituted superparamagnetic MgFe ₂ O ₄ spinel-ferrites: Investigations on structural and spin-interactions. <i>Journal of Advanced Ceramics</i> , 2020, 9, 576-587.	17.4	79
4	Photosensitizing activity of ferrocenyl bearing Ni(ii) and Cu(ii) dithiocarbamates in dye sensitized TiO ₂ solar cells. <i>Dalton Transactions</i> , 2014, 43, 4752.	3.3	72
5	The Potential Application of Endophytes in Management of Stress from Drought and Salinity in Crop Plants. <i>Microorganisms</i> , 2021, 9, 1729.	3.6	70
6	Ionic liquid-controlled J- versus H-aggregation of cyanine dyes. <i>Chemical Communications</i> , 2011, 47, 4730.	4.1	59
7	Intermolecular anagostic interactions in group 10 metal dithiocarbamates. <i>CrystEngComm</i> , 2014, 16, 9299-9307.	2.6	51
8	Optimal Control of Matrix-Converter-Based WECS for Performance Enhancement and Efficiency Optimization. <i>IEEE Transactions on Energy Conversion</i> , 2009, 24, 264-273.	5.2	47
9	Unusual C-H...Ni anagostic interactions in new homoleptic Ni(ii) dithio complexes. <i>CrystEngComm</i> , 2013, 15, 4676.	2.6	46
10	Illuminated night alters hippocampal gene expressions and induces depressive-like responses in diurnal corvids. <i>European Journal of Neuroscience</i> , 2018, 48, 3005-3018.	2.6	39
11	Unusual fluorescein prototropism within aqueous acidic 1-butyl-3-methylimidazolium tetrafluoroborate solution. <i>Chemical Communications</i> , 2010, 46, 5112.	4.1	37
12	J-aggregation of ionic liquid solutions of meso-tetrakis(4-sulfonatophenyl)porphyrin. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1886-1894.	2.8	36
13	Influence of ligand environments on the structures and luminescence properties of homoleptic cadmium(ii) pyridyl functionalized dithiocarbamates. <i>CrystEngComm</i> , 2014, 16, 6765.	2.6	35
14	Influence of functionalities on the structure and luminescent properties of organotin(IV) dithiocarbamate complexes. <i>Journal of Organometallic Chemistry</i> , 2015, 787, 65-72.	1.8	35
15	Difference in control between spring and autumn migration in birds: insight from seasonal changes in hypothalamic gene expression in captive buntings. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181531.	2.6	34
16	Role of the Surfactant Structure in the Behavior of Hydrophobic Ionic Liquids within Aqueous Micellar Solutions. <i>ChemPhysChem</i> , 2010, 11, 1044-1052.	2.1	33
17	Adaptive Neuro-Fuzzy Inference System-Based Maximum Power Tracking Controller for Variable Speed WECS. <i>Energies</i> , 2021, 14, 6275.	3.1	33
18	Intermolecular Tl...C anagostic interactions in luminescent pyridyl functionalized thallium dithiocarbamates. <i>Dalton Transactions</i> , 2015, 44, 1716-1723.	3.3	31

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19	Outdoor daylight exposure and longer sleep promote wellbeing under COVID-19 mandated restrictions. <i>Journal of Sleep Research</i> , 2022, 31, e13471.	3.2	30
20	Hypothalamic and liver transcriptome from two crucial life-history stages in a migratory songbird. <i>Experimental Physiology</i> , 2018, 103, 559-569.	2.0	29
21	Syntheses, crystal structures and conducting properties of new homoleptic copper (II) dithiocarbamate complexes. <i>Inorganica Chimica Acta</i> , 2013, 408, 145-151.	2.4	28
22	Effect of pyridyl substituents leading to the formation of green luminescent mercury(<i>II</i>) coordination polymers, zinc(<i>II</i>) dimers and a monomer. <i>New Journal of Chemistry</i> , 2014, 38, 3737.	2.8	28
23	Impact of ferrocenyl and pyridyl groups attached to dithiocarbamate moieties on crystal structures and luminescent characteristics of group 12 metal complexes. <i>Journal of Organometallic Chemistry</i> , 2016, 820, 62-69.	1.8	23
24	Exploring the coordinative behaviour and molecular architecture of new PhHg(<i>II</i>)/Hg(<i>II</i>) dithiocarbamate complexes. <i>Inorganica Chimica Acta</i> , 2014, 421, 210-217.	2.4	22
25	Morphologically dilated convolutional neural network for hyperspectral image classification. <i>Signal Processing: Image Communication</i> , 2022, 101, 116549.	3.2	21
26	Contrasting Behavior of Classical Salts versus Ionic Liquids toward Aqueous Phase J-Aggregate Dissociation of a Cyanine Dye. <i>Langmuir</i> , 2011, 27, 12884-12890.	3.5	19
27	Syntheses, crystal structures and photoluminescent properties of new heteroleptic Ni(<i>II</i>) and Pd(<i>II</i>) complexes of ferrocene functionalized dithiocarbamate-and dipyrromethene ligands. <i>Inorganic Chemistry Communication</i> , 2013, 37, 151-154.	3.9	19
28	Influence of ligand environment on the structure and properties of silver(<i>I</i>) dithiocarbamate cluster-based coordination polymers and dimers. <i>New Journal of Chemistry</i> , 2014, 38, 4478-4485.	2.8	18
29	Metabolic plasticity mediates differential responses to spring and autumn migrations: Evidence from gene expression patterns in migratory buntings. <i>Experimental Physiology</i> , 2019, 104, 1841-1857.	2.0	18
30	Cooperative influence of ligand frameworks in sustaining supramolecular architectures of Ni(<i>II</i>)/Pd(<i>II</i>) heteroleptic dithio-dipyrin complexes via non-covalent interactions. <i>Polyhedron</i> , 2015, 89, 304-312.	2.2	16
31	Ionic liquid induced removal of Rhodamine B from water. <i>Journal of Molecular Liquids</i> , 2020, 319, 114195.	4.9	16
32	Sleep in unnatural times: illuminated night negatively affects sleep and associated hypothalamic gene expressions in diurnal zebra finches. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192952.	2.6	15
33	Syntheses, crystal structures and optical properties of heteroleptic copper(<i>I</i>) dithio/PPh ₃ complexes. <i>Polyhedron</i> , 2014, 79, 324-329.	2.2	14
34	Selective Quenching of 2-Naphtholate Fluorescence by Imidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12030-12037.	2.6	13
35	Aggregation of a model porphyrin within poly(ethylene glycol) (PEG): effect of water, PEG molecular weight, ionic liquids, salts, and temperature. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7263-7273.	2.8	13
36	Light at night affects hippocampal and nidopallial cytoarchitecture: Implication for impairment of brain function in diurnal corvids. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2019, 331, 149-156.	1.9	12

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37	Scotostimulation of reproductive neural pathways and gonadal maturation are not correlated with hypothalamic expression of deiodinases in subtropical spotted munia. <i>Journal of Neuroendocrinology</i> , 2018, 30, e12627.	2.6	11
38	Protonâ€Transfer Reactions of Acridine in Waterâ€Containing Ionicâ€Liquidâ€Rich Mixtures. <i>ChemPhysChem</i> , 2013, 14, 3944-3952.	2.1	10
39	The quantity-quality trade-off: differential effects of daily food times on reproductive performance and offspring quality in diurnal zebra finches. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	10
40	Selfâ€Probing of Micellization within Phenylâ€Containing Surfactant Solutions. <i>ChemPhysChem</i> , 2010, 11, 2510-2513.	2.1	9
41	Circannual testis and moult cycles persist under photoperiods that disrupt circadian activity and clock gene cycles in spotted munia. <i>Journal of Experimental Biology</i> , 2017, 220, 4162-4168.	1.7	9
42	Ionic Liquidâ€Controlled Excitedâ€State Behavior of Naphthols. <i>ChemPhysChem</i> , 2013, 14, 491-495.	2.1	8
43	Ambient temperature affects multiple drivers of physiology and behaviour: adaptation for timely departure of obligate spring migrants. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	8
44	Structural and multiferroic properties of BiFeO ₃ /MgLa _{0.025} Fe _{1.975} O ₄ nanocomposite synthesized by solâ€gel auto combustion route. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2777-2788.	2.2	8
45	Polyoxomolybdate(VI) anion stabilized by ammonium cation <i>via</i> CS ₂ elimination from <i>N</i> -benzyl- <i>N</i> -methylferrocenyl dithiocarbamate. <i>Journal of Coordination Chemistry</i> , 2012, 65, 431-438.	2.2	7
46	Controlling excited-state prototropism via the acidity of ionic liquids. <i>RSC Advances</i> , 2013, 3, 11621.	3.6	7
47	Synthesis, crystal structures and conducting properties of heteroleptic nickel(II) 1,1-dithiolate-bpy/dppe ligand complexes. <i>Polyhedron</i> , 2015, 101, 251-256.	2.2	7
48	Molecular changes associated with migratory departure from wintering areas in obligate songbird migrants. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	7
49	Voltage sag assessment with respect to sensitivity of adjustable speed drives in distributed generation environment. , 2015, , .		6
50	Temperature affects liver and muscle metabolism in photostimulated migratory redheaded buntings (<i>Emberiza bruniceps</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019, 189, 623-635.	1.5	6
51	Changes in DNA methylation and histone modification gene expression in response to daily food times in zebra finches: epigenetic implications. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
52	Development of a Novel Control for a Matrix Converter Interfaced Wind Energy Conversion System for Dynamic Performance Enhancement. <i>Electric Power Components and Systems</i> , 2015, 43, 1062-1071.	1.8	5
53	Development of vernal migration in redheaded buntings: concurrent behavioral, physiological and neural changes under stimulatory photoperiods. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2509-2520.	2.9	5
54	Stochastic evaluation of voltage sag in power system network considering effect of photovoltaic generation. <i>International Transactions on Electrical Energy Systems</i> , 2019, 29, e2773.	1.9	5

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55	Differences in transcription regulation of diurnal metabolic support to physiologically contrasting seasonal life-history states in migratory songbirds. <i>Journal of Ornithology</i> , 2022, 163, 199-212.	1.1	5
56	Hypothalamic plasticity in response to changes in photoperiod and food quality: An adaptation to support pre-migratory fattening in songbirds?. <i>European Journal of Neuroscience</i> , 2021, 53, 430-448.	2.6	4
57	Novel Control for Voltage Boosted Matrix Converter based Wind Energy Conversion System with Practicality. <i>Journal of the Institution of Engineers (India): Series B</i> , 2017, 98, 231-237.	1.9	3
58	Physiological effects of food availability times in higher vertebrates. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	3
59	Doubly Fed Induction Generators. , 2010, , 147-178.		2
60	Born without night: The consequence of the no-night environment on reproductive performance in diurnal zebra finches. <i>Journal of Experimental Biology</i> , 2021, , .	1.7	2
61	Solar Tunnel Dryer " A Promising Option for Solar Drying. , 2011, , 289-320.		1
62	Changes in brain peptides associated with reproduction and energy homeostasis: Putative roles of gonadotrophin-releasing hormone and tyrosine hydroxylase in determining reproductive performance in response to daily food availability times in diurnal zebra finches. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12825.	2.6	1
63	DC-Microgrid Voltage Regulation using Dual Active Bridge based SVR. , 2021, , .		1
64	The Association of Internet Overuse with Sleep and Mood in Indian Female University Students. <i>Sleep and Vigilance</i> , 2021, 5, 71-83.	0.8	1
65	Study of magnetic and optical transitions in MFe ₂ O ₄ (M=Co, Zn, Fe, Mn) with spinel structure. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2021, 12, 481-491.	0.4	1
66	Co-operative influence of co-crystallized solvent in sustaining supramolecular architectures of Zn(II)/Cd(II) homoleptic pyridyl functionalized dithiocarbamates complexes <i>via</i> non-covalent interactions. <i>Journal of Sulfur Chemistry</i> , 2022, 43, 252-263.	2.0	1
67	Non-grid Solar Thermal Technologies. , 2011, , 267-288.		0