

# Vikram Singh

## List of Publications by Year in descending order

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86  
papers

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citations

394421

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87  
docs citations

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times ranked

1275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thiazole-Linked Covalent Organic Framework Promoting Fast Two-Electron Transfer for Lithium-Organic Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003735.	19.5	78
2	Addressing of multiple-metal ions on a single platform. <i>Coordination Chemistry Reviews</i> , 2015, 292, 30-55.	18.8	70
3	Monitoring antimicrobial resistance in <i>Neisseria gonorrhoeae</i> in selected countries of the WHO South-East Asia Region between 2009 and 2012: a retrospective analysis. <i>Sexually Transmitted Infections</i> , 2013, 89, iv28-iv35.	1.9	58
4	Nanometric Assembly of Functional Terpyridyl Complexes on Transparent and Conductive Oxide Substrates: Structure, Properties, and Applications. <i>Accounts of Chemical Research</i> , 2017, 50, 2128-2138.	15.6	50
5	A ternary memory module using low-voltage control over optical properties of metal-polypyridyl monolayers. <i>Chemical Communications</i> , 2014, 50, 3783-3785.	4.1	36
6	A census of <i>P. longum</i> 's phytochemicals and their network pharmacological evaluation for identifying novel drug-like molecules against various diseases, with a special focus on neurological disorders. <i>PLoS ONE</i> , 2018, 13, e0191006.	2.5	35
7	Molecular sensors confined on SiO <sub>x</sub> substrates. <i>Coordination Chemistry Reviews</i> , 2017, 330, 144-163.	18.8	31
8	Insights about multi-targeting and synergistic neuromodulators in Ayurvedic herbs against epilepsy: integrated computational studies on drug-target and protein-protein interaction networks. <i>Scientific Reports</i> , 2019, 9, 10565.	3.3	31
9	Naphthalene diimide as a two-electron anolyte for aqueous and neutral pH redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11218-11223.	10.3	30
10	DNA immobilization, delivery and cleavage on solid supports. <i>Journal of Materials Chemistry</i> , 2011, 21, 10602.	6.7	26
11	A fast and selective probe for monitoring Pd <sup>2+</sup> in aqueous medium via the dual-optical readout. <i>Chemical Communications</i> , 2014, 50, 8488.	4.1	26
12	Advances in electrochemical energy storage with covalent organic frameworks. <i>Materials Advances</i> , 0, , .	5.4	26
13	In vitro efficacy of 21 dual antimicrobial combinations comprising novel and currently recommended combinations for treatment of drug resistant gonorrhoea in future era. <i>PLoS ONE</i> , 2018, 13, e0193678.	2.5	25
14	Turn on-electron-transfer-based selective detection of ascorbic acid via copper complexes immobilized on glass. <i>Analyst</i> , 2012, 137, 3216.	3.5	24
15	Surface-Confined Heterometallic Triads on the Basis of Terpyridyl Complexes and Design of Molecular Logic Gates. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8677-8686.	8.0	24
16	Comparative assessment of CDS, CLSI disc diffusion and Etest techniques for antimicrobial susceptibility testing of <i>Neisseria gonorrhoeae</i> : a 6-year study. <i>BMJ Open</i> , 2012, 2, e000969.	1.9	23
17	Chickpea peel waste as sustainable precursor for synthesis of fluorescent carbon nanotubes for bioimaging application. <i>Carbon Letters</i> , 2021, 31, 117-123.	5.9	23
18	VDR polymorphism, gene expression and vitamin D levels in leprosy patients from North Indian population. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006823.	3.0	22

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19	Critical behavior and magnetocaloric effect across the magnetic transition in $Mn_{1-x}Fe_4xSi_3$ . <i>Scientific Reports</i> , 2020, 10, 6981.	3.3	21
20	Systematic Designs of Dicationic Heteroarylpyridiniums as Negolytes for Nonaqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3390-3397.	17.4	21
21	A Highly Efficient NHC-Catalyzed Aerobic Oxidation of Aldehydes to Carboxylic Acids. <i>Synthesis</i> , 2018, 50, 4290-4294.	2.3	19
22	Electrochemical Potential-Driven High-Throughput Molecular Electronic and Spintronic Devices: From Molecules to Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26904-26921.	13.8	18
23	Gentamicin <i>in vitro</i> activity and tentative gentamicin interpretation criteria for the CLSI and calibrated dichotomous sensitivity disc diffusion methods for <i>Neisseria gonorrhoeae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 1856-1859.	3.0	17
24	Catalytic oxidation of ascorbic acid via copper-polypyridyl complex immobilized on glass. <i>RSC Advances</i> , 2014, 4, 23168-23176.	3.6	16
25	Fe-terpyridyl complex based multiple switches for application in molecular logic gates and circuits. <i>New Journal of Chemistry</i> , 2014, 38, 2679-2685.	2.8	16
26	Construction of Phenanthrenes and Chrysenes from $\hat{I}^2$ -Bromovinylarenes via Aryne Diels-Alder Reaction/Aromatization. <i>Journal of Organic Chemistry</i> , 2019, 84, 14161-14167.	3.2	16
27	Optical "Turn off"-based selective detection and concomitant degradation of 2-chloroethyl ethyl sulfide (CEES) via Mg-porphyrine complex immobilized on glass. <i>Analytica Chimica Acta</i> , 2014, 812, 222-227.	5.4	15
28	Surface confined heteroleptic copper(ii)-polypyridyl complexes for photonuclease activity. <i>Chemical Communications</i> , 2014, 50, 11484-11487.	4.1	15
29	Gentamicin Susceptibility among a Sample of Multidrug-Resistant <i>Neisseria gonorrhoeae</i> Isolates in India. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 7518-7521.	3.2	15
30	Magnetocaloric effect and magnetoresistance correlation in Ge-doped $Mn_2Sb$ . <i>Materials Research Express</i> , 2014, 1, 046101.	1.6	13
31	Synthesis and characterization of a Sb-containing polyoxomolybdate serving as a catalyst for sulfoxidation. <i>Dalton Transactions</i> , 2018, 47, 8070-8077.	3.3	13
32	Carbene/Base-Mediated Redox Alkenylation of Isatins using $\hat{I}^2$ -Substituted Organoselenones and Aldehydes. <i>Journal of Organic Chemistry</i> , 2019, 84, 14898-14903.	3.2	13
33	Little Ice Age Revealed in Tree-Ring-Based Precipitation Record From the Northwest Himalaya, India. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091298.	4.0	13
34	Trends of Resistance to Antimicrobials Recommended Currently and in the Past for Management of Gonorrhoea in the Apex STD Center in India and Comparison of Antimicrobial Resistance Profile Between 2002-2006 and 2007-2012. <i>Sexually Transmitted Diseases</i> , 2015, 42, 218-222.	1.7	12
35	Deciphering the multi-scale mechanisms of <i>Tephrosia purpurea</i> against polycystic ovarian syndrome (PCOS) and its major psychiatric comorbidities: Studies from network pharmacological perspective. <i>Gene</i> , 2021, 773, 145385.	2.2	12
36	Development of activated carbon from KOH activation of pre-carbonized chickpea peel residue and its performance for removal of synthetic dye from drinking water. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6913-6923.	4.6	12

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37	Magnetic and magnetocaloric properties of LaCr <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> (x = 0, 0.05, 0.1). <i>Ceramics International</i> , 2019, 45, 22731-22736.	4.8	11
38	Real-time PCR-based quantitation of viable <i>Mycobacterium leprae</i> strain from clinical samples and environmental sources and its genotype in multi-case leprosy families of India. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020, 39, 2045-2055.	2.9	11
39	Unconventional superparamagnetic behavior in the modified cubic spinel compound $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_4$ . <i>Physical Review B</i> , 2020, 102, .	3.2	11
40	Magnetic properties and near-room-temperature large magnetocaloric effect in (La <sub>1-x</sub> Bix) <sub>0.67</sub> Ba <sub>0.33</sub> MnO <sub>3</sub> (x = 0 - 0.3) ceramics. <i>Materials Research Bulletin</i> , 2021, 133, 111030.	5.2	11
41	Pressure controlled trimerization for switching of anomalous Hall effect in triangular antiferromagnet Mn <sub>3</sub> Sn. <i>Physical Review Research</i> , 2020, 2, .	3.6	11
42	Green Synthesis and Thermal Encapsulation of Organic Cathode for Aqueous Zn Battery. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020503.	2.9	10
43	Gm-boosted current-reuse inductive-peaking common source LNA for 3.1-10.6 GHz UWB wireless applications in 32 nm CMOS. <i>Analog Integrated Circuits and Signal Processing</i> , 2018, 97, 351-363.	1.4	9
44	A 3-14 GHz, Self-Body Biased Common-Gate UWB LNA for Wireless Applications in 90 nm CMOS. <i>Journal of Circuits, Systems and Computers</i> , 2019, 28, 1950056.	1.5	9
45	Construction and analysis of an interologous protein-protein interaction network of <i>Camellia sinensis</i> leaf (TeaLIPIN) from RNA-Seq data sets. <i>Plant Cell Reports</i> , 2019, 38, 1249-1262.	5.6	9
46	Complete mitogenome of endemic plum-headed parakeet <i>Psittacula cyanocephala</i> characterization and phylogenetic analysis. <i>PLoS ONE</i> , 2021, 16, e0241098.	2.5	9
47	Low-dimensional magnetism of BaCuTe <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , 2021, 103, .	3.2	9
48	Note: Inverted heat pulse method to measure heat capacity during cooling: A counterpart of conventional quasi-adiabatic heat pulse method. <i>Review of Scientific Instruments</i> , 2015, 86, 056102.	1.3	8
49	Covalently Assembled Monolayers of Homoleptic and Heteroleptic Fe <sup>II</sup> -Terpyridyl Complexes on SiO <sub>2</sub> and ITO-Coated Glass Substrates: An Experimental and Theoretical Study. <i>ChemPhysChem</i> , 2017, 18, 3407-3415.	2.1	8
50	Functional elucidation of hypothetical proteins for their indispensable roles toward drug designing targets from <i>Helicobacter pylori</i> strain HPAG1. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 906-918.	3.5	8
51	Genome-wide interologous interactome map (TeaGPIN) of <i>Camellia sinensis</i> . <i>Genomics</i> , 2021, 113, 553-564.	2.9	8
52	Bifurcation in Cell Cycle Dynamics Regulated by p53. <i>PLoS ONE</i> , 2015, 10, e0129620.	2.5	7
53	A 0.7 V, Ultra-Wideband Common Gate LNA with Feedback Body Bias Topology for Wireless Applications. <i>Journal of Low Power Electronics and Applications</i> , 2018, 8, 42.	2.0	7
54	Association of non-tuberculous mycobacteria with <i>Mycobacterium leprae</i> in environment of leprosy endemic regions in India. <i>Infection, Genetics and Evolution</i> , 2019, 72, 191-198.	2.3	7

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55	TulsiPIN: An Interologous Protein Interactome of <i>Ocimum tenuiflorum</i> . Journal of Proteome Research, 2020, 19, 884-899.	3.7	7
56	Green, economical synthesis of nitrogen enriched carbon nanoparticles from seaweed extract and their application as invisible ink and fluorescent film. Materials Letters, 2022, 309, 131446.	2.6	7
57	Chemical speciation and source apportionment of ambient PM <sub>2.5</sub> in New Delhi before, during, and after the Diwali fireworks. Atmospheric Pollution Research, 2022, 13, 101428.	3.8	7
58	Stochastic synchronization of circadian rhythms. Journal of Systems Science and Complexity, 2010, 23, 978-988.	2.8	6
59	A ternary Fe(II)-terpyridyl complex-based single platform for reversible multiple-ion recognition. Dalton Transactions, 2018, 47, 6386-6393.	3.3	6
60	Deposition and Removal Studies of Asphaltene from the Glass Surface. Energy & Fuels, 2021, 35, 3228-3239.	5.1	6
61	Multi-scale mechanism of antiviral drug-alike phytoligands from Ayurveda in managing COVID-19 and associated metabolic comorbidities: insights from network pharmacology. Molecular Diversity, 2022, 26, 2575-2594.	3.9	6
62	Magnetic properties of ordered polycrystalline FeRh thin films. RSC Advances, 2017, 7, 44097-44103.	3.6	5
63	How Reliable Is Microscopy and Culture for the Diagnosis of Gonorrhea? An 11-Year Experience from INDIA. Sexually Transmitted Diseases, 2017, 44, 111-113.	1.7	5
64	Giant negative magnetoresistance and kinetic arrest of first-order ferrimagnetic-antiferromagnetic transition in Ge doped Mn <sub>2</sub> Sb. Journal of Applied Physics, 2019, 125, 233906.	2.5	5
65	A Common-Gate Current-Reuse UWB LNA for Wireless Applications in 90Ånm CMOS. Wireless Personal Communications, 2021, 119, 1405.	2.7	5
66	Carbene Catalyzed Access to 3,6-Disubstituted $\alpha$ -Pyrones via Michael Addition/Lactonization/Elimination Cascade. Advanced Synthesis and Catalysis, 2021, 363, 4862-4866.	4.3	5
67	Chemically stable and high acid recovery anion exchange membrane. Polymer, 2022, 251, 124915.	3.8	5
68	Stitching Triazoles to Arenes via a Transition Metal-Free Aryne Diels-Alder/1,3-Prototropic Shift/Dehydrobromination Cascade. Journal of Organic Chemistry, 2021, 86, 12277-12284.	3.2	4
69	Negative thermal expansion and itinerant ferromagnetism in Mn <sub>1.4</sub> Fe <sub>3.6</sub> Si <sub>3</sub> . Journal of Applied Physics, 2021, 130, .	2.5	4
70	Increasing Incidence of Droughts Since Later Part of Little Ice Age Over North-Western Himalaya, India. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
71	Molecular logic operations based on optical detection of sulfur mustard simulant using pyridine appended Mg-porphyrine complex. Sensors and Actuators B: Chemical, 2016, 227, 85-91.	7.8	3
72	Electrochemical Potential-Driven High-Throughput Molecular Electronic and Spintronic Devices: From Molecules to Applications. Angewandte Chemie, 2021, 133, 27110-27127.	2.0	3

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73	Fe(II)-Catalyzed Synthesis of Unactivated Aziridines (N <sub>2</sub> H/N <sub>2</sub> Me) from Olefins Using O-Arylsulfonyl Hydroxylamines. <i>ChemistrySelect</i> , 2021, 6, 10524-10526.	1.5	3
74	Meteorology governs the variation of Delhi's high particulate-bound chloride levels. <i>Chemosphere</i> , 2022, 291, 132879.	8.2	3
75	A 20-10 GHz ultra-wideband common-gate low noise amplifier using body bias technique in 0.18 $\mu$ m CMOS. , 2017, , .		2
76	Effect of resistive feedback on performance parameters of common source LNA. , 2017, , .		2
77	A 5.7mW, UWB LNA for Wireless Applications Using Noise Canceling Technique in 90nm CMOS. <i>Frequenz</i> , 2020, 74, 83-93.	0.9	2
78	Molecular characterization of environmental mycobacterial species from leprosy endemic tribal regions of North Purulia District, West Bengal. <i>International Journal of Mycobacteriology</i> , 2019, 8, 381.	0.6	2
79	Paucibacillary Leprosy: Reappraisal using Ziehl-Neelsen staining of slit skin smears and 16S rRNA Real Time Polymerase Chain Reaction of nasal swabs. <i>Leprosy Review</i> , 2018, 89, 272-279.	0.3	1
80	Effect of pH and surfactants on shear induced asphaltene removal. <i>Journal of Petroleum Science and Engineering</i> , 2022, 211, 110134.	4.2	1
81	Magnetic phase transition and magneto-elastic coupling in Fe <sub>1+Cr<sub>2</sub>-Se<sub>4</sub> (<math>x=0.0 - 0.50</math>). <i>Materials Research Bulletin</i>, 2022, 155, 111941.</sub>	5.2	1
82	A cost-effective and simple alternative technique for reconstitution of freeze-dried cultures of <i>Neisseria gonorrhoeae</i> . <i>Journal of Medical Microbiology</i> , 2014, 63, 150-151.	1.8	0
83	Magnetic field dependence of magnetic domains in Co doped Mn <sub>2</sub> Sb using magnetic force microscopy. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
84	Study of phase co-existence in Rh doped FePt using low temperature magnetic force microscopy. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
85	Study of boron doping on crystal structure and electro-transport property of TbCo <sub>2</sub> . <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
86	A Low-Power Hara Inductor-Based Differential Ring Voltage-Controlled Oscillator. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 85-95.	0.4	0