

# Sushil Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,399  
citations

304743

22  
h-index

214800

47  
g-index

68  
all docs

68  
docs citations

68  
times ranked

3181  
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO <sub>2</sub> Nanoparticles and Nb <sub>2</sub> O <sub>5</sub> Nanorods Immobilized rGO for Efficient Visible-Light Photocatalysis and Catalytic Reduction. <i>Catalysis Letters</i> , 2023, 153, 605-621.	2.6	5
2	Numerical Simulation for Optimization of Ultra-thin n-type AZO and TiO <sub>2</sub> Based Textured p-type c-Si Heterojunction Solar Cells. <i>Silicon</i> , 2022, 14, 4291-4299.	3.3	5
3	Palladium complex of sulphated schiff base with ortho-vanillin as catalyst for O-arylation of phenol. <i>Materials Today: Proceedings</i> , 2022, 48, 1553-1558.	1.8	3
4	Functionalization of graphene oxide with a hybrid P, N ligand for immobilizing and stabilizing economical and non-toxic nanosized CuO: an efficient, robust and reusable catalyst for the C–O coupling reaction in <i>O</i> -arylation of phenol. <i>New Journal of Chemistry</i> , 2022, 46, 3578-3587.	2.8	12
5	Norbornane-based covalent organic frameworks for gas separation. <i>Nanoscale</i> , 2022, 14, 2475-2481.	5.6	24
6	Numerical simulation of novel designed perovskite/silicon heterojunction solar cell. <i>Optical Materials</i> , 2022, 123, 111847.	3.6	19
7	Extraction and Analysis of Recovered Silver and Silicon from Laboratory Grade Waste Solar Cells. <i>Silicon</i> , 2022, 14, 9635-9642.	3.3	8
8	Rapid fabrication of fluorinated covalent organic polymer membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 648, 120345.	8.2	24
9	Boron Induced Crystallization of Silicon on Glass: an Alternate Way to Crystallize Amorphous Silicon Films for Solar Cells. <i>Silicon</i> , 2022, 14, 10459-10466.	3.3	0
10	Recent progress on synthetic and protein-based genetically encoded sensors for fluorimetric Cu( <sup>i</sup> ) recognition: binding and reaction-based approaches. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 429-448.	3.8	2
11	Easily synthesizable benzothiazole based designers palladium complexes for catalysis of Suzuki coupling: Controlling effect of aryl substituent of ligand on role and composition of insitu generated binary nanomaterial (PdS or Pd <sub>16</sub> S <sub>7</sub> ). <i>Catalysis Communications</i> , 2021, 149, 106242.	3.3	18
12	Recognition, mechanistic investigation and applications for the detection of biorelevant Cu <sup>2+</sup> /Fe <sup>2+</sup> /Fe <sup>3+</sup> ions by ruthenium( <sup>ii</sup> )-polypyridyl based fluorescent sensors. <i>Dalton Transactions</i> , 2021, 50, 2705-2721.	3.3	22
13	12 Green polymers and green building blocks. , 2021, , 222-262.		0
14	Estrogen Receptor $\beta$ -Mediated Inhibition of Actin-Based Cell Migration Suppresses Metastasis of Inflammatory Breast Cancer. <i>Cancer Research</i> , 2021, 81, 2399-2414.	0.9	7
15	Catalytically active nanosized Pd <sub>9</sub> Te <sub>4</sub> (telluropalladinite) and PdTe (kotulskite) alloys: first precursor-architecture controlled synthesis using palladium complexes of organotellurium compounds as single source precursors. <i>RSC Advances</i> , 2021, 11, 7214-7224.	3.6	25
16	Dll1+ quiescent tumor stem cells drive chemoresistance in breast cancer through NF- $\kappa$ B survival pathway. <i>Nature Communications</i> , 2021, 12, 432.	12.8	38
17	Organoselenium ligands for heterogeneous and nanocatalytic systems: development and applications. <i>Dalton Transactions</i> , 2021, 50, 8628-8656.	3.3	38
18	Synthesis of covalent organic frameworks using sustainable solvents and machine learning. <i>Green Chemistry</i> , 2021, 23, 8932-8939.	9.0	39

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19	Bioinspired Heterobimetallic Photocatalyst ( $\text{Ru}^{\text{II}}\text{chrom-Fe}^{\text{III}}\text{cat}$ ) for Visible-Light-Driven $\text{C-H}$ Oxidation of Organic Substrates via Dioxxygen Activation. <i>Inorganic Chemistry</i> , 2021, 60, 16059-16064.	4.0	4
20	Copper ion luminescence on/off sensing by a quinoline-appended ruthenium(II)-polypyridyl complex in aqueous media. <i>Journal of Molecular Structure</i> , 2020, 1202, 127242.	3.6	19
21	Investigation of new magnetoelastic and magnetic transitions accompanied with magnetoelectric coupling in $\text{0.1BiFeO}_3\text{0.9Sr}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ multiferroic. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 105401.	1.8	0
22	Inducible knockout of $\text{Np63}$ alters cell polarity and metabolism during pubertal mammary gland development. <i>FEBS Letters</i> , 2020, 594, 973-985.	2.8	7
23	Organochalcogen ligands in catalysis of oxidation of alcohols and transfer hydrogenation. <i>Dalton Transactions</i> , 2020, 49, 12503-12529.	3.3	29
24	Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. <i>Chemical Science</i> , 2020, 11, 5434-5440.	7.4	78
25	Loss of $\text{ELF5-FBXW7}$ stabilizes $\text{IFNGR1}$ to promote the growth and metastasis of triple-negative breast cancer through interferon- $\gamma$ signalling. <i>Nature Cell Biology</i> , 2020, 22, 591-602.	10.3	67
26	Zinc ion interactions in a two-dimensional covalent organic framework based aqueous zinc ion battery. <i>Chemical Science</i> , 2019, 10, 8889-8894.	7.4	220
27	Ultra-small palladium nano-particles synthesized using bulky S/Se and N donor ligands as a stabilizer: application as catalysts for Suzuki-Miyaura coupling. <i>RSC Advances</i> , 2019, 9, 22313-22319.	3.6	26
28	Bidentate organochalcogen ligands (N, E; $\text{E}=\text{S/Se}$ ) as stabilizers for recyclable palladium nanoparticles and their application in Suzuki-Miyaura coupling reactions. <i>Polyhedron</i> , 2019, 171, 120-127.	2.2	25
29	Turn-On Fluorescent Sensors for the Selective Detection of $\text{Al}^{3+}$ (and $\text{Ga}^{3+}$ ) and PPI Ions. <i>Inorganic Chemistry</i> , 2019, 58, 10364-10376.	4.0	86
30	Developing a simple and water soluble thiophene-functionalized $\text{Ru(II)}$ -polypyridyl complex for ferric ion detection. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107500.	3.9	6
31	Room temperature crystal structure and low temperature scaling behavior of $\text{0.70BiFeO}_3\text{-0.30Sr}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramic. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
32	Room temperature crystal structure and high temperature structural and magnetic phase transitions in $\text{Sr}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramic. <i>Journal of Applied Physics</i> , 2019, 125, 174102.	2.5	3
33	Room temperature synthesis of an $\text{Fe}^{\text{II}}$ -based porous MOF with multiple open metal sites for high gas adsorption properties. <i>New Journal of Chemistry</i> , 2019, 43, 4338-4341.	2.8	2
34	Estrogen-dependent DLL1-mediated Notch signaling promotes luminal breast cancer. <i>Oncogene</i> , 2019, 38, 2092-2107.	5.9	66
35	Size-Selective Detection of Picric Acid by Fluorescent Palladium Macrocycles. <i>Inorganic Chemistry</i> , 2018, 57, 1693-1697.	4.0	44
36	Porosity Prediction through Hydrogen Bonding in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 5138-5145.	13.7	118

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37	Friction and Adhesive Wear Study of HVOF Sprayed Niâ€‘WCâ€‘Co-Based Powder Coating. Powder Metallurgy and Metal Ceramics, 2018, 57, 329-335.	0.8	0
38	Notch ligand Dll1 mediates cross-talk between mammary stem cells and the macrophageal niche. Science, 2018, 360, .	12.6	144
39	MicroRNA hsa-miR-324-5p Suppresses H5N1 Virus Replication by Targeting the Viral PB1 and Host CUEDC2. Journal of Virology, 2018, 92, .	3.4	42
40	Î”Np63-driven recruitment of myeloid-derived suppressor cells promotes metastasis in triple-negative breast cancer. Journal of Clinical Investigation, 2018, 128, 5095-5109.	8.2	102
41	Constructing Ultraporous Covalent Organic Frameworks in Seconds via an Organic Terracotta Process. Journal of the American Chemical Society, 2017, 139, 1856-1862.	13.7	432
42	Efficient trifluoromethylation of C(sp <sup>2</sup> )â€‘H functionalized Î±-oxoketene dithioacetals: a route to the regioselective synthesis of functionalized trifluoromethylated pyrazoles. RSC Advances, 2017, 7, 10150-10153.	3.6	5
43	Interplaying anions in a supramolecular metallohydrogel to form metal organic frameworks. Chemical Communications, 2017, 53, 3705-3708.	4.1	20
44	Cobalt complexes of pyrrolecarboxamide ligands as catalysts in nitro reduction reactions: influence of electronic substituents on catalysis and mechanistic insights. Inorganic Chemistry Frontiers, 2017, 4, 324-335.	6.0	15
45	Cobalt Complexes Catalyze Reduction of Nitro Compounds: Mechanistic Studies. ChemistrySelect, 2017, 2, 8197-8206.	1.5	14
46	<i>N,Nâ€‘Di(alkylâ€‘4-arylâ€‘3,4-dihydropyrimidinones and Thiones: Ceric Ammonium Nitrate Catalyzed Synthesis and Molecular Structure Determination by Xâ€‘ray Crystallography. Journal of Heterocyclic Chemistry, 2017, 54, 1486-1491.	2.6	2
47	Regioselective <i>5â€‘endoâ€‘dig</i> Electrophilic Iodocyclization of Enediyne: A Convenient Route to Iodoâ€‘substituted Indenes and Cyclopentaâ€‘fused Arenes. Chemistry - an Asian Journal, 2016, 11, 3001-3007.	3.3	16
48	Manganese Complexes of Pyrroleâ€‘and Î”ndolecarboxamide Ligands: Synthesis, Structure, Electrochemistry, and Applications in Oxidative and Lewisâ€‘Acidâ€‘Assisted Catalysis. European Journal of Inorganic Chemistry, 2015, 2015, 5534-5544.	2.0	9
49	Low prevalence of CCR5-Î”32, CCR2-64I and SDF1-3â€‘A alleles in the Baiga and Gond tribes of Central India. SpringerPlus, 2015, 4, 451.	1.2	10
50	The microRNA miR-485 targets host and influenza virus transcripts to regulate antiviral immunity and restrict viral replication. Science Signaling, 2015, 8, ra126.	3.6	138
51	Pd(<sc>i</sc>) complexes with amide-based macrocycles: syntheses, properties and applications in cross-coupling reactions. New Journal of Chemistry, 2015, 39, 2042-2051.	2.8	22
52	Cu(II)-catalyzed tandem synthesis of 2-imino[1,3]benzothiazines from 2-aminoaryl acrylates via thioamidation and concomitant chemoselective thia-Michael addition. Tetrahedron Letters, 2015, 56, 677-681.	1.4	22
53	Endogenous and Exogenous Ligandâ€‘Dependent Formation of a Superoxideâ€‘Bridged Dicobalt(III) Complex and Mononuclear Co<sup>III</sup> Complexes with Amideâ€‘Based Macrocyclic Ligands. European Journal of Inorganic Chemistry, 2014, 2014, 5567-5576.	2.0	8
54	Au(III)-catalyzed regio- and stereoselective tandem synthesis of oxazolo fused naphthyridines and isoquinolines from o-alkynylaldehydes. Tetrahedron Letters, 2014, 55, 610-615.	1.4	12

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55	The role of TLR9 polymorphism in susceptibility to pulmonary tuberculosis. Immunogenetics, 2014, 66, 675-681.	2.4	43
56	Nickel and Copper Complexes of Pyrrolecarboxamide Ligands – Stabilization of $M^{3+}$ Species and Isolation of $Ni^{3+}$ Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 4957-4965.	2.0	15
57	Recognition of bacterial infection by innate immune sensors. Critical Reviews in Microbiology, 2013, 39, 229-246.	6.1	163
58	Palladium-Catalyzed Regioselective [3 + 2] Annulation of Internal Alkynes and Iodo-pyranoquinolines with Concomitant Ring Opening. Organic Letters, 2012, 14, 5184-5187.	4.6	39
59	Synthesis and Properties of Dinuclear $\mu_4$ -Oxodiiron(III) Complexes of Amide-Based Macrocyclic Ligands. European Journal of Inorganic Chemistry, 2012, 2012, 5525-5533.	2.0	7
60	Nickel and copper complexes with few amide-based macrocyclic and open-chain ligands. Inorganica Chimica Acta, 2011, 377, 144-154.	2.4	19
61	Electronic and Infrared Spectroscopic Studies of Aggregation of Cholesterol. Spectroscopy Letters, 2007, 40, 583-590.	1.0	2
62	Biorenewable Nanocomposite Materials in Membrane Separations. ACS Symposium Series, 0, , 189-235.	0.5	1
63	Expedient Access to Polyaromatic Biaryls by Unconventional Ag-Catalyzed Cycloaromatization of Alkynylthiophenes and Au-Catalyzed Double C-H Activation. Organic Letters, 0, , .	4.6	8