

# Vinod Kumar Vadivel

## List of Publications by Year in descending order

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36  
papers

977  
citations

394286  
19  
h-index

454834  
30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanoparticles based selective colorimetric sensor for Cd <sup>2+</sup> , Hg <sup>2+</sup> and Pb <sup>2+</sup> ions: Tuning sensitivity and selectivity using co-stabilizing agents. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 31-36.	4.0	108
2	Aerogels for water treatment: A review. <i>Journal of Cleaner Production</i> , 2021, 329, 129713.	4.6	64
3	Bio-functionalized silver nanoparticles for selective colorimetric sensing of toxic metal ions and antimicrobial studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 35-42.	2.0	59
4	A facile route to synthesize casein capped copper nanoparticles: an effective antibacterial agent and selective colorimetric sensor for mercury and tryptophan. <i>RSC Advances</i> , 2014, 4, 33215-33221.	1.7	53
5	Effect of surfactant in mitigating cadmium oxide nanoparticle toxicity: Implications for mitigating cadmium toxicity in environment. <i>Environmental Research</i> , 2017, 152, 141-149.	3.7	49
6	Synthesis of Co <sub>3</sub> O <sub>4</sub> nanoparticles with block and sphere morphology, and investigation into the influence of morphology on biological toxicity. <i>Experimental and Therapeutic Medicine</i> , 2016, 11, 553-560.	0.8	47
7	Fabrication of strong bifunctional electrocatalytically active hybrid Cu <sup>2+</sup> /Cu <sub>2</sub> O nanoparticles in a carbon matrix. <i>Catalysis Science and Technology</i> , 2018, 8, 1414-1422.	2.1	42
8	Nanocellulose production from recycled paper mill sludge using ozonation pretreatment followed by recyclable maleic acid hydrolysis. <i>Carbohydrate Polymers</i> , 2019, 216, 343-351.	5.1	39
9	Highly selective silver nanoparticles based label free colorimetric sensor for nitrite anions. <i>Analytica Chimica Acta</i> , 2014, 842, 57-62.	2.6	37
10	Synthesis of $\pm$ -MoO <sub>3</sub> nanoplates using organic aliphatic acids and investigation of sunlight enhanced photodegradation of organic dyes. <i>Materials Research Bulletin</i> , 2016, 76, 147-154.	2.7	34
11	Synthesis of CuO and Cu <sub>2</sub> O nano/microparticles from a single precursor: effect of temperature on CuO/Cu <sub>2</sub> O formation and morphology dependent nitroarene reduction. <i>RSC Advances</i> , 2016, 6, 85083-85090.	1.7	33
12	Synthesis of biofunctionalized AgNPs using medicinally important <i>Sida cordifolia</i> leaf extract for enhanced antioxidant and anticancer activities. <i>Materials Letters</i> , 2016, 170, 101-104.	1.3	32
13	Ethanol-activated granular aerogel as efficient adsorbent for persistent organic pollutants from real leachate and hospital wastewater. <i>Journal of Hazardous Materials</i> , 2020, 384, 121396.	6.5	32
14	Antimicrobial studies of metal and metal oxide nanoparticles. , 2016, , 265-300.		31
15	Fluorescent carbon quantum dots chemosensor for selective turn-on sensing of Zn <sup>2+</sup> and turn-off sensing of Pb <sup>2+</sup> in aqueous medium and zebrafish eggs. <i>New Journal of Chemistry</i> , 2017, 41, 15157-15164.	1.4	30
16	Surface functionalized fluorescent CdS QDs: Selective fluorescence switching and quenching by Cu <sup>2+</sup> and Hg <sup>2+</sup> at wide pH range. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 335-341.	2.0	25
17	Probing electrochemical interfaces using shell-isolated nanoparticles-enhanced Raman spectroscopy. <i>Current Opinion in Electrochemistry</i> , 2017, 1, 16-21.	2.5	25
18	Effective Removal of Acid Dye in Synthetic and Silk Dyeing Effluent: Isotherm and Kinetic Studies. <i>ACS Omega</i> , 2022, 7, 118-128.	1.6	22

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19	Biogenic silver nanoparticles synthesis using the extract of the medicinal plant Clerodendron serratum and its in-vitro antiproliferative activity. <i>Materials Letters</i> , 2015, 160, 400-403.	1.3	21
20	AuNP based selective colorimetric sensor for cysteine at a wide pH range: investigation of capping molecule structure on the colorimetric sensing and catalytic properties. <i>RSC Advances</i> , 2014, 4, 18467-18472.	1.7	19
21	Highly selective colorimetric sensing of Hg <sup>2+</sup> ions by label free AuNPs in aqueous medium across wide pH range. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 413-419.	4.0	19
22	Rapid visible-light degradation of EE2 and its estrogenicity in hospital wastewater by crystalline promoted g-C <sub>3</sub> N <sub>4</sub> . <i>Journal of Hazardous Materials</i> , 2020, 398, 122880.	6.5	19
23	Self-assembly of water soluble perylene tetracarboxylic acid with metal cations: Selective fluorescence sensing of Cu <sup>2+</sup> and Pb <sup>2+</sup> ions in paper strips, zebrafish and yeast. <i>Journal of Luminescence</i> , 2018, 203, 42-49.	1.5	18
24	Alanine based coordinating ligand mediated hydrothermal synthesis of CuS nano/microstructures and morphology dependent photocatalysis. <i>CrystEngComm</i> , 2015, 17, 3452-3459.	1.3	17
25	Copper-coordination polymer-controlled Cu@N-rGO and CuO@C nanoparticle formation: reusable green catalyst for A <sup>3+</sup> -coupling and nitroarene-reduction reactions. <i>Dalton Transactions</i> , 2017, 46, 11704-11714.	1.6	17
26	ApAGP-fabricated silver nanoparticles induce amendment of murine macrophage polarization. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3511-3520.	2.9	15
27	Hyperbranched polyethylenimine-based sensor of multiple metal ions (Cu <sup>2+</sup> ), <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf</i> <i>RSC Advances</i> , 2015, 5, 88125-88132.	1.7	11
28	Removal of Indigo Dye by CaCO <sub>3</sub> /Ca(OH) <sub>2</sub> Composites and Resource Recovery. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 10312-10318.	1.8	10
29	Heavy metal cation and anion sensing studies of N-(2-hydroxybenzyl)-isopropylamine surface functionalized AgNPs. <i>New Journal of Chemistry</i> , 2015, 39, 1308-1314.	1.4	9
30	Natural Amino Acid Based Phenolic Derivatives for Synthesizing Silver Nanoparticles with Tunable Morphology and Antibacterial Studies. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 2702-2706.	1.0	9
31	Decolorization of dyes from textile wastewater using biochar: a review. <i>Acta Innovations</i> , 2020, , 36-46.	0.4	8
32	LP-UV-Nano MgO <sub>2</sub> Pretreated Catalysis Followed by Small Bioreactor Platform Capsules Treatment for Superior Kinetic Degradation Performance of 17 $\beta$ -Ethinylestradiol. <i>Materials</i> , 2020, 13, 83.	1.3	7
33	Coordinating ligand functionalized AgNPs for colorimetric sensing: effect of subtle structural and conformational change of ligand on the selectivity. <i>RSC Advances</i> , 2014, 4, 64717-64724.	1.7	6
34	L-Methionine based phenolic compound mediates unusual assembly of AgNPs and exerts efficient anti-biofilm effect. <i>RSC Advances</i> , 2016, 6, 45716-45726.	1.7	4
35	Recycled Paper Sludge (RPS)-Derived Nanocellulose: Production, Detection and Water Treatment Application. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3077.	1.3	4
36	Metal-organic frameworks derived CuONPs@C nanocatalysts for synthesizing optoelectronic triarylamine molecules. <i>Inorganic Chemistry Communication</i> , 2021, 123, 108301.	1.8	2