

# Vijay Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,576  
citations

257450

24  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of highly fluorescent nitrogen-rich carbon quantum dots and their application for the turn-off detection of cobalt (II). Optical Materials, 2019, 92, 311-318.	3.6	37
2	A Facile and Simple Strategy for the Synthesis of Label Free Carbon Quantum Dots from the <i>Euphorbia milii</i> and Its Peroxidase-Mimic Activity for the Naked Eye Detection of Glutathione in a Human Blood Serum. ACS Sustainable Chemistry and Engineering, 2019, 7, 1923-1932.	6.7	46
3	Green Synthesis of Fluorescent Carbon Quantum Dots from <i>Azadirachta indica</i> Leaves and Their Peroxidase-Mimetic Activity for the Detection of $H_2O_2$ and Ascorbic Acid in Common Fresh Fruits. ACS Biomaterials Science and Engineering, 2019, 5, 623-632.	5.2	138
4	Mustard seeds derived fluorescent carbon quantum dots and their peroxidase-like activity for colorimetric detection of $H_2O_2$ and ascorbic acid in a real sample. Analytica Chimica Acta, 2019, 1054, 145-156.	5.4	125
5	Green synthesis of fluorescent carbon quantum dots for the detection of mercury(II) and glutathione. New Journal of Chemistry, 2018, 42, 5814-5821.	2.8	135
6	Enhanced electron transfer mediated detection of hydrogen peroxide using a silver nanoparticle-reduced graphene oxide-polyaniline fabricated electrochemical sensor. RSC Advances, 2018, 8, 619-631.	3.6	68
7	Size-Dependent Synthesis of Gold Nanoparticles and Their Peroxidase-Like Activity for the Colorimetric Detection of Glutathione from Human Blood Serum. ACS Sustainable Chemistry and Engineering, 2018, 6, 7662-7675.	6.7	50
8	Bright-blue-emission nitrogen and phosphorus-doped carbon quantum dots as a promising nanoprobe for detection of $Cr(VI)$ and ascorbic acid in pure aqueous solution and in living cells. New Journal of Chemistry, 2018, 42, 12990-12997.	2.8	59
9	Green synthesis of silver nanoparticle for the selective and sensitive colorimetric detection of mercury (II) ion. Journal of Photochemistry and Photobiology B: Biology, 2017, 168, 67-77.	3.8	64
10	Modelling of fixed bed column containing graphene oxide decorated by MgO nanocubes as adsorbent for Lead(II) removal from water. Journal of Water Process Engineering, 2017, 17, 216-228.	5.6	25
11	Effective removal of lead ions using graphene oxide-MgO nanohybrid from aqueous solution: Isotherm, kinetic and thermodynamic modeling of adsorption. Journal of Environmental Chemical Engineering, 2017, 5, 2259-2273.	6.7	94
12	Breakthrough curve modeling of graphene oxide aerogel packed fixed bed column for the removal of $Cr(VI)$ from water. Journal of Water Process Engineering, 2017, 18, 150-158.	5.6	42
13	Polylysine Functionalized Graphene Aerogel for the Enhanced Removal of $Cr(VI)$ through Adsorption: Kinetic, Isotherm, and Thermodynamic Modeling of the Process. Journal of Chemical & Engineering Data, 2017, 62, 1732-1742.	1.9	66
14	Effective removal of Fluoride ions by rGO/ZrO <sub>2</sub> nanocomposite from aqueous solution: Fixed bed column adsorption modelling and its adsorption mechanism. Journal of Fluorine Chemistry, 2017, 194, 40-50.	1.7	87
15	Photo-induced biosynthesis of silver nanoparticles from aqueous extract of <i>Dunaliella salina</i> and their anticancer potential. Journal of Photochemistry and Photobiology B: Biology, 2017, 166, 202-211.	3.8	66
16	Photoinduced green synthesis of silver nanoparticles using aqueous extract of <i>Physalis angulata</i> and its antibacterial and antioxidant activity. Journal of Environmental Chemical Engineering, 2017, 5, 744-756.	6.7	42
17	Biosynthesis of silver nanoparticles from the novel strain of <i>Streptomyces</i> Sp. BHUMBU-80 with highly efficient electroanalytical detection of hydrogen peroxide and antibacterial activity. Journal of Environmental Chemical Engineering, 2017, 5, 5624-5635.	6.7	30
18	Photo-mediated optimized synthesis of silver nanoparticles for the selective detection of Iron(III), antibacterial and antioxidant activity. Materials Science and Engineering C, 2017, 71, 1004-1019.	7.3	46

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19	Photo-induced rapid biosynthesis of silver nanoparticle using aqueous extract of <i>Xanthium strumarium</i> and its antibacterial and antileishmanial activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 224-236.	5.8	55
20	Synthesis and characterization of rGO/ZrO <sub>2</sub> nanocomposite for enhanced removal of fluoride from water: kinetics, isotherm, and thermodynamic modeling and its adsorption mechanism. <i>RSC Advances</i> , 2016, 6, 87523-87538.	3.6	55
21	Modeling of adsorption behavior of the amine-rich GOPEI aerogel for the removal of As( <sup>III</sup> ) and As( <sup>V</sup> ) from aqueous media. <i>RSC Advances</i> , 2016, 6, 56684-56697.	3.6	30
22	Photoinduced green synthesis of silver nanoparticles with highly effective antibacterial and hydrogen peroxide sensing properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 374-385.	3.8	41
23	Sunlight-induced green synthesis of silver nanoparticles using aqueous leaf extract of <i>Polyalthia longifolia</i> and its antioxidant activity. <i>Materials Letters</i> , 2016, 181, 371-377.	2.6	53
24	Photo-induced biosynthesis of silver nanoparticles using aqueous extract of <i>Erigeron bonariensis</i> and its catalytic activity against Acridine Orange. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 155, 39-50.	3.8	72
25	Kinetic, isotherm and thermodynamic studies of adsorption behaviour of CNT/CuO nanocomposite for the removal of As( <sup>III</sup> ) and As( <sup>V</sup> ) from water. <i>RSC Advances</i> , 2016, 6, 1218-1230.	3.6	50