

# Vijay Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,576  
citations

257101

24  
h-index

580395

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g-index

25  
all docs

25  
docs citations

25  
times ranked

2135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green Synthesis of Fluorescent Carbon Quantum Dots from <i>Azadirachta indica</i> Leaves and Their Peroxidase-Mimetic Activity for the Detection of H <sub>2</sub> O <sub>2</sub> and Ascorbic Acid in Common Fresh Fruits. ACS Biomaterials Science and Engineering, 2019, 5, 623-632.	2.6	138
2	Green synthesis of fluorescent carbon quantum dots for the detection of mercury(II) and glutathione. New Journal of Chemistry, 2018, 42, 5814-5821.	1.4	135
3	Mustard seeds derived fluorescent carbon quantum dots and their peroxidase-like activity for colorimetric detection of H <sub>2</sub> O <sub>2</sub> and ascorbic acid in a real sample. Analytica Chimica Acta, 2019, 1054, 145-156.	2.6	125
4	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.	3.3	94
5	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.	0.9	87
6	Photo-induced biosynthesis of silver nanoparticles using aqueous extract of Erigeron bonariensis and its catalytic activity against Acridine Orange. Journal of Photochemistry and Photobiology B: Biology, 2016, 155, 39-50.	1.7	72
7	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.	1.7	68
8	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.	1.0	66
9	Photo-induced biosynthesis of silver nanoparticles from aqueous extract of Dunaliella salina and their anticancer potential. Journal of Photochemistry and Photobiology B: Biology, 2017, 166, 202-211.	1.7	66
10	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.	1.7	64
11	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.	1.4	59
12	Photo-induced rapid biosynthesis of silver nanoparticle using aqueous extract of Xanthium strumarium and its antibacterial and antileishmanial activity. Journal of Industrial and Engineering Chemistry, 2016, 37, 224-236.	2.9	55
13	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. RSC Advances, 2016, 6, 87523-87538.	1.7	55
14	Sunlight-induced green synthesis of silver nanoparticles using aqueous leaf extract of Polyalthia longifolia and its antioxidant activity. Materials Letters, 2016, 181, 371-377.	1.3	53
15	Kinetic, isotherm and thermodynamic studies of adsorption behaviour of CNT/CuO nanocomposite for the removal of As(III) and As(V) from water. RSC Advances, 2016, 6, 1218-1230.	1.7	50
16	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.	3.2	50
17	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.	3.8	46
18	A Facile and Simple Strategy for the Synthesis of Label Free Carbon Quantum Dots from the latex of <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.	3.2	46

#	ARTICLE	IF	CITATIONS
19	Breakthrough curve modeling of graphene oxide aerogel packed fixed bed column for the removal of Cr(VI) from water. <i>Journal of Water Process Engineering</i> , 2017, 18, 150-158.	2.6	42
20	Photoinduced green synthesis of silver nanoparticles using aqueous extract of <i>Physalis angulata</i> and its antibacterial and antioxidant activity. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 744-756.	3.3	42
21	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.	1.7	41
22	Synthesis of highly fluorescent nitrogen-rich carbon quantum dots and their application for the turn-off detection of cobalt (II). <i>Optical Materials</i> , 2019, 92, 311-318.	1.7	37
23	Modeling of adsorption behavior of the amine-rich GOPEI aerogel for the removal of As(III) and As(V) from aqueous media. <i>RSC Advances</i> , 2016, 6, 56684-56697.	1.7	30
24	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. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5624-5635.	3.3	30
25	Modelling of fixed bed column containing graphene oxide decorated by MgO nanocubes as adsorbent for Lead(II) removal from water. <i>Journal of Water Process Engineering</i> , 2017, 17, 216-228.	2.6	25