

Khalid M Omer

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,996
citations

218381

26
h-index

243296

44
g-index

52
all docs

52
docs citations

52
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing the optical band gap of polyvinyl alcohol (PVA) based nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5303-5309.	1.1	201
2	Electrochemical Behavior and Electrogenerated Chemiluminescence of Star-Shaped D π A Compounds with a 1,3,5-Triazine Core and Substituted Fluorene Arms. <i>Journal of the American Chemical Society</i> , 2010, 132, 10944-10952.	6.6	121
3	Electrochemistry and Electrogenerated Chemiluminescence of a Spirobifluorene-Based Donor (Triphenylamine) π -Acceptor (2,1,3-Benzothiadiazole) Molecule and Its Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 5492-5499.	6.6	101
4	Green Electrogenerated Chemiluminescence of Highly Fluorescent Benzothiadiazole and Fluorene Derivatives. <i>Journal of the American Chemical Society</i> , 2009, 131, 10733-10741.	6.6	81
5	Solvothermal synthesis of phosphorus and nitrogen doped carbon quantum dots as a fluorescent probe for iron(III). <i>Mikrochimica Acta</i> , 2018, 185, 466.	2.5	77
6	Dual functional highly luminescence B, N Co-doped carbon nanodots as nanothermometer and Fe ³⁺ /Fe ²⁺ sensor. <i>Scientific Reports</i> , 2020, 10, 3028.	1.6	76
7	Efficient and Stable Blue Electrogenerated Chemiluminescence of Fluorene π -Substituted Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9300-9303.	7.2	72
8	Chelation-enhanced fluorescence of phosphorus doped carbon nanodots for multi-ion detection. <i>Mikrochimica Acta</i> , 2017, 184, 2063-2071.	2.5	72
9	Spontaneous Formation and Electrogenerated Chemiluminescence of Tris(bipyridine) Ru(II) Derivative Nanobelts. <i>Journal of the American Chemical Society</i> , 2008, 130, 7196-7197.	6.6	65
10	Removal of dichloroacetic acid from aqueous solution using non-thermal plasma generated by dielectric barrier discharge and nano-pulse corona discharge. <i>Separation and Purification Technology</i> , 2019, 216, 51-57.	3.9	64
11	Electrogenerated Chemiluminescence of Aromatic Hydrocarbon Nanoparticles in an Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11575-11578.	1.5	63
12	Inner filter effect (IFE) as a simple and selective sensing platform for detection of tetracycline using milk-based nitrogen-doped carbon nanodots as fluorescence probe. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5151-5159.	2.3	55
13	Molecular imprinted polymer combined with aptamer (MIP-aptamer) as a hybrid dual recognition element for bio(chemical) sensing applications. <i>Review. Talanta</i> , 2022, 236, 122878.	2.9	53
14	Carbon Dots as New Generation Materials for Nanothermometer: Review. <i>Nanoscale Research Letters</i> , 2020, 15, 182.	3.1	50
15	Electrochemistry, Spectroscopy, and Electrogenerated Chemiluminescence of Some Star-Shaped Truxene π -Oligofluorene Compounds π . <i>Journal of Physical Chemistry B</i> , 2007, 111, 6612-6619.	1.2	46
16	In-car particulate matter exposure across ten global cities. <i>Science of the Total Environment</i> , 2021, 750, 141395.	3.9	46
17	Highly passivated phosphorous and nitrogen co-doped carbon quantum dots and fluorometric assay for detection of copper ions. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6331-6336.	1.9	44
18	Dual-mode colorimetric and fluorometric probe for ferric ion detection using N-doped carbon dots prepared via hydrothermal synthesis followed by microwave irradiation. <i>Optical Materials</i> , 2019, 94, 330-336.	1.7	44

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19	Systematic multiscale models to predict the compressive strength of self-compacting concretes modified with nanosilica at different curing ages. <i>Engineering With Computers</i> , 2022, 38, 2365-2388.	3.5	44
20	Lowering the detection limit towards nanomolar mercury ion detection <i>via</i> surface modification of N-doped carbon quantum dots. <i>New Journal of Chemistry</i> , 2019, 43, 8677-8683.	1.4	41
21	Application of Photocatalytic Falling Film Reactor to Elucidate the Degradation Pathways of Pharmaceutical Diclofenac and Ibuprofen in Aqueous Solutions. <i>Coatings</i> , 2019, 9, 465.	1.2	40
22	Photoluminescence enhancement <i>via</i> microwave irradiation of carbon quantum dots derived from solvothermal synthesis of <i>scp</i> -arginine. <i>New Journal of Chemistry</i> , 2019, 43, 689-695.	1.4	40
23	Up-Conversion Fluorescence of Phosphorous and Nitrogen Co-Doped Carbon Quantum Dots (CDs) Coupled with Weak LED Light Source for Full-Spectrum Driven Photocatalytic Degradation via ZnO-CDs Nanocomposites. <i>Catalysis Letters</i> , 2018, 148, 2746-2755.	1.4	37
24	Carbon nanodots as efficient photosensitizers to enhance visible-light driven photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 53-58.	2.0	35
25	Electrochemistry and Electrogenerated Chemiluminescence of Some BODIPY Derivatives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15361-15368.	1.5	31
26	Smartphone-based fluorescence detection of bilirubin using yellow emissive carbon dots. <i>Analytical Methods</i> , 2022, 14, 1730-1738.	1.3	31
27	A red luminescent europium metal organic framework (Eu-MOF) integrated with a paper strip using smartphone visual detection for determination of folic acid in pharmaceutical formulations. <i>New Journal of Chemistry</i> , 2022, 46, 8152-8161.	1.4	25
28	Enhancing enzymatic activity of Mn@Co ₃ O ₄ nanosheets as mimetic nanozyme for colorimetric assay of ascorbic acid. <i>Analytical Biochemistry</i> , 2022, 654, 114818.	1.1	25
29	Improvement of selectivity <i>via</i> the surface modification of carbon nanodots towards the quantitative detection of mercury ions. <i>New Journal of Chemistry</i> , 2019, 43, 12979-12986.	1.4	24
30	Highly photoluminescent label free probe for Chromium (II) ions using carbon quantum dots co-doped with nitrogen and phosphorous. <i>Journal of Luminescence</i> , 2019, 206, 540-546.	1.5	24
31	Inner filter effect as a sensitive sensing platform for detection of nitrofurantoin using luminescent drug-based carbon nanodots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 244, 118835.	2.0	24
32	In-kitchen aerosol exposure in twelve cities across the globe. <i>Environment International</i> , 2022, 162, 107155.	4.8	24
33	Potential health risks due to in-car aerosol exposure across ten global cities. <i>Environment International</i> , 2021, 155, 106688.	4.8	23
34	Soft computing techniques to predict the compressive strength of green self-compacting concrete incorporating recycled plastic aggregates and industrial waste ashes. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 2253-2281.	2.1	22
35	Amphiphilic fluorescent carbon nanodots as a selective nanoprobe for nitrite and tetracycline both in aqueous and organic solutions. <i>New Journal of Chemistry</i> , 2020, 44, 5120-5126.	1.4	21
36	Visual monitoring of silver ions and cysteine using bi-ligand Eu-based metal organic framework as a reference signal: Color tonality. <i>Microchemical Journal</i> , 2022, 181, 107721.	2.3	21

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37	Valorization of tire wastes to carbon quantum dots (P-CDs) and photocatalytic degradation enhancement of organic wastes using ZnO-CDs nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11598-11606.	1.1	16
38	Designing of robust and sensitive assay via encapsulation of highly emissive and stable blue copper nanocluster into zeolitic imidazole framework (ZIF-8) with quantitative detection of tetracycline. <i>Journal of Analytical Science and Technology</i> , 2022, 13, .	1.0	15
39	Highly Luminescent and Biocompatible P and N Co-Doped Passivated Carbon Nanodots for the Sensitive and Selective Determination of Rifampicin Using the Inner Filter Effect. <i>Materials</i> , 2020, 13, 2275.	1.3	14
40	Electrochemistry and Electrogenerated Chemiluminescence of Quinoxaline Derivatives. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20027-20032.	1.5	13
41	Dual-emitter polymer carbon dots with spectral selection towards nanomolar detection of iron and aluminum ions. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103452.	2.3	12
42	Selectivity Enhancement for Uric Acid Detection via <i>In Situ</i> Preparation of Blue Emissive Carbon Dots Entrapped in Chromium Metal-Organic Frameworks. <i>ACS Omega</i> , 2022, 7, 16576-16583.	1.6	12
43	Synthesis, Spectroscopic Studies and Keto-Enol Tautomerism of Novel 1,3,4-Thiadiazole Derivative Containing 3-Mercaptobutan-2-one and Quinazolin-4-one Moieties. <i>Molecules</i> , 2020, 25, 5441.	1.7	11
44	Room temperature and surfactant free synthesis of zinc peroxide (ZnO ₂) nanoparticles in methanol with highly efficient antimicrobials. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103090.	2.3	10
45	Modeling the compressive strength of eco-friendly self-compacting concrete incorporating ground granulated blast furnace slag using soft computing techniques. <i>Environmental Science and Pollution Research</i> , 2022, 29, 71338-71357.	2.7	8
46	Novel Electropolishing of Pure Metallic Titanium in Choline Chloride-Based Various Organic Solvents. <i>Electrochemistry</i> , 2021, 89, 67-70.	0.6	6
47	Solventless synthesis of a Schiff base that forms highly fluorescent organic nanoparticles exhibiting aggregation-induced emission in aqueous media. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 1184-1192.	1.3	5
48	Recent advances in O-formylation of alcohols and phenols using efficient catalysts in eco-friendly media. <i>Synthetic Communications</i> , 2020, 50, 2132-2155.	1.1	4
49	Cobalt Electroplating in Choline Chloride-ethylene Glycol: A Comparative Study. <i>Electrochemistry</i> , 2021, , .	0.6	3
50	Effect of Copper Ion and Water on Anodic Dissolution of Metallic Copper in a Deep Eutectic Solvent (DES). <i>Electrochemistry</i> , 2021, 89, 71-74.	0.6	3
51	Efficient passive sampler using copper oxide micro-adsorbent for the detection of volatile sulfur compounds (VSCs) from the small lab-scale spilled crude oil. <i>Petroleum Science and Technology</i> , 2022, 40, 1567-1577.	0.7	1
52	Preparation and Characterization of Blue Emissive Organic Nanoparticles of 4-Quinazolinone Containing 1,3,4-Thiadiazole Derivative in Aqueous Media. <i>Materials Focus</i> , 2016, 5, 51-54.	0.4	0