Khalid M Omer

List of Publications by Year
in descending order

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	Systematic multiscale models to predict the compressive strength of self-compacting concretes modified with nanosilica at different curing ages. Engineering With Computers, 2022, 38, 2365-2388.	3.5	44
2	Molecular imprinted polymer combined with aptamer (MIP-aptamer) as a hybrid dual recognition element for bio(chemical) sensing applications. Review. Talanta, 2022, 236, 122878.	2.9	53
3	Efficient passive sampler using copper oxide micro-adsorbent for the detection of volatile sulfur compounds (VSCs) from the small lab-scale spilled crude oil. Petroleum Science and Technology, 2022, 40, 1567-1577.	0.7	1
4	Smartphone-based fluorescence detection of bilirubin using yellow emissive carbon dots. Analytical Methods, 2022, 14, 1730-1738.	1.3	31
5	In-kitchen aerosol exposure in twelve cities across the globe. Environment International, 2022, 162, 107155.	4.8	24
6	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. New Journal of Chemistry, 2022, 46, 8152-8161.	1.4	25
7	Selectivity Enhancement for Uric Acid Detection via In Situ Preparation of Blue Emissive Carbon Dots Entrapped in Chromium Metalâ€“Organic Frameworks. ACS Omega, 2022, 7, 16576-16583.	1.6	12
8	Soft computing techniques to predict the compressive strength of green self-compacting concrete incorporating recycled plastic aggregates and industrial waste ashes. Clean Technologies and Environmental Policy, 2022, 24, 2253-2281.	2.1	22
9	Modeling the compressive strength of eco-friendly self-compacting concrete incorporating ground granulated blast furnace slag using soft computing techniques. Environmental Science and Pollution Research, 2022, 29, 71338-71357.	2.7	8
10	Visual monitoring of silver ions and cysteine using bi-ligand Eu-based metal organic framework as a reference signal: Color tonality. Microchemical Journal, 2022, 181, 107721.	2.3	21
11	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. Journal of Analytical Science and Technology, 2022, 13, .	1.0	15
12	Enhancing enzymatic activity of Mn@Co3O4 nanosheets as mimetic nanozyme for colorimetric assay of ascorbic acid. Analytical Biochemistry, 2022, 654, 114818.	1.1	25
13	Inner filter effect as a sensitive sensing platform for detection of nitrofurantoin using luminescent drug-based carbon nanodots. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118835.	2.0	24
14	In-car particulate matter exposure across ten global cities. Science of the Total Environment, 2021, 750, 141395.	3.9	46
15	Cobalt Electroplating in Choline Chloride-ethylene Glycol: A Comparative Study. Electrochemistry, 2021, , .	0.6	3
16	Effect of Copper Ion and Water on Anodic Dissolution of Metallic Copper in a Deep Eutectic Solvent (DES). Electrochemistry, 2021, 89, 71-74.	0.6	3
17	Room temperature and surfactant free synthesis of zinc peroxide (ZnO2) nanoparticles in methanol with highly efficient antimicrobials. Arabian Journal of Chemistry, 2021, 14, 103090.	2.3	10
18	Dual-emitter polymer carbon dots with spectral selection towards nanomolar detection of iron and aluminum ions. Arabian Journal of Chemistry, 2021, 14, 103452.	2.3	12

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19	Potential health risks due to in-car aerosol exposure across ten global cities. Environment International, 2021, 155, 106688.	4.8	23
20	Novel Electropolishing of Pure Metallic Titanium in Choline Chloride-Based Various Organic Solvents. Electrochemistry, 2021, 89, 67-70.	0.6	6
21	Synthesis, Spectroscopic Studies and Keto-Enol Tautomerism of Novel 1,3,4-Thiadiazole Derivative Containing 3-Mercaptobutan-2-one and Quinazolin-4-one Moieties. Molecules, 2020, 25, 5441.	1.7	11
22	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. Materials, 2020, 13, 2275.	1.3	14
23	Amphiphilic fluorescent carbon nanodots as a selective nanoprobe for nitrite and tetracycline both in aqueous and organic solutions. New Journal of Chemistry, 2020, 44, 5120-5126.	1.4	21
24	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. Arabian Journal of Chemistry, 2020, 13, 5151-5159.	2.3	55
25	Dual functional highly luminescence B, N Co-doped carbon nanodots as nanothermometer and Fe3+/Fe2+ sensor. Scientific Reports, 2020, 10, 3028.	1.6	76
26	Recent advances in O-formylation of alcohols and phenols using efficient catalysts in eco-friendly media. Synthetic Communications, 2020, 50, 2132-2155.	1.1	4
27	Carbon Dots as New Generation Materials for Nanothermometer: Review. Nanoscale Research Letters, 2020, 15, 182.	3.1	50
28	Improvement of selectivity via the surface modification of carbon nanodots towards the quantitative detection of mercury ions. New Journal of Chemistry, 2019, 43, 12979-12986.	1.4	24
29	Application of Photocatalytic Falling Film Reactor to Elucidate the Degradation Pathways of Pharmaceutical Diclofenac and Ibuprofen in Aqueous Solutions. Coatings, 2019, 9, 465.	1.2	40
30	Photoluminescence enhancement via microwave irradiation of carbon quantum dots derived from solvothermal synthesis of <scp>l</scp>-arginine. New Journal of Chemistry, 2019, 43, 689-695.	1.4	40
31	Removal of dichloroacetic acid from aqueous solution using non-thermal plasma generated by dielectric barrier discharge and nano-pulse corona discharge. Separation and Purification Technology, 2019, 216, 51-57.	3.9	64
32	Dual-mode colorimetric and fluorometric probe for ferric ion detection using N-doped carbon dots prepared via hydrothermal synthesis followed by microwave irradiation. Optical Materials, 2019, 94, 330-336.	1.7	44
33	Valorization of tire wastes to carbon quantum dots (P-CDs) and photocatalytic degradation enhancement of organic wastes using ZnO-CDs nanocomposites. Journal of Materials Science: Materials in Electronics, 2019, 30, 11598-11606.	1.1	16
34	Lowering the detection limit towards nanomolar mercury ion detection via surface modification of N-doped carbon quantum dots. New Journal of Chemistry, 2019, 43, 8677-8683.	1.4	41
35	Highly photoluminescent label free probe for Chromium (II) ions using carbon quantum dots co-doped with nitrogen and phosphorous. Journal of Luminescence, 2019, 206, 540-546.	1.5	24
36	Solvothermal synthesis of phosphorus and nitrogen doped carbon quantum dots as a fluorescent probe for iron(III). Mikrochimica Acta, 2018, 185, 466.	2.5	77

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37	Carbon nanodots as efficient photosensitizers to enhance visible-light driven photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 53-58.	2.0	35
38	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. Catalysis Letters, 2018, 148, 2746-2755.	1.4	37
39	Highly passivated phosphorous and nitrogen co-doped carbon quantum dots and fluorometric assay for detection of copper ions. Analytical and Bioanalytical Chemistry, 2018, 410, 6331-6336.	1.9	44
40	Chelation-enhanced fluorescence of phosphorus doped carbon nanodots for multi-ion detection. Mikrochimica Acta, 2017, 184, 2063-2071.	2.5	72
41	Solventless synthesis of a Schiff base that forms highly fluorescent organic nanoparticles exhibiting aggregation-induced emission in aqueous media. Journal of Experimental Nanoscience, 2016, 11, 1184-1192.	1.3	5
42	Preparation and Characterization of Blue Emissive Organic Nanoparticles of 4-Quinazolinone Containing 1,3,4-Thiadiazole Derivative in Aqueous Media. Materials Focus, 2016, 5, 51-54.	0.4	0
43	Reducing the optical band gap of polyvinyl alcohol (PVA) based nanocomposite. Journal of Materials Science: Materials in Electronics, 2015, 26, 5303-5309.	1.1	201
44	Electrochemistry and Electrogenerated Chemiluminescence of a Spirobifluorene-Based Donor (Triphenylamine)â^'Acceptor (2,1,3-Benzothiadiazole) Molecule and Its Organic Nanoparticles. Journal of the American Chemical Society, 2011, 133, 5492-5499.	6.6	101
45	Electrochemistry and Electrogenerated Chemiluminescence of Some BODIPY Derivatives. Journal of Physical Chemistry C, 2011, 115, 15361-15368.	1.5	31
46	Electrochemical Behavior and Electrogenerated Chemiluminescence of Star-Shaped Dâ^'A Compounds with a 1,3,5-Triazine Core and Substituted Fluorene Arms. Journal of the American Chemical Society, 2010, 132, 10944-10952.	6.6	121
47	Efficient and Stable Blue Electrogenerated Chemiluminescence of Fluoreneâ€Substituted Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2009, 48, 9300-9303.	7.2	72
48	Green Electrogenerated Chemiluminescence of Highly Fluorescent Benzothiadiazole and Fluorene Derivatives. Journal of the American Chemical Society, 2009, 131, 10733-10741.	6.6	81
49	Electrogenerated Chemiluminescence of Aromatic Hydrocarbon Nanoparticles in an Aqueous Solution. Journal of Physical Chemistry C, 2009, 113, 11575-11578.	1.5	63
50	Electrochemistry and Electrogenerated Chemiluminescence of Quinoxaline Derivatives. Journal of Physical Chemistry C, 2008, 112, 20027-20032.	1.5	13
51	Spontaneous Formation and Electrogenerated Chemiluminescence of Tris(bipyridine) Ru(II) Derivative Nanobelts. Journal of the American Chemical Society, 2008, 130, 7196-7197.	6.6	65
52	Electrochemistry, Spectroscopy, and Electrogenerated Chemiluminescence of Some Star-Shaped Truxeneâ^'Oligofluorene Compoundsâ€. Journal of Physical Chemistry B, 2007, 111, 6612-6619.	1.2	46