Waleed M A El Rouby

List of Publications by Year
in descending order

69 papers	1,850 citations	201575 27 h-index	289141 40 g-index
70 all docs	70 docs citations	70 times ranked	2221 citing authors

#	Article	IF	Citations
1	Preparation, decoration and characterization of graphene sheets for methyl green adsorption. Journal of Alloys and Compounds, 2013, 555, 193-200.	2.8	109
2	Synthesis and modification of multi-walled carbon nano-tubes (MWCNTs) for water treatment applications. Journal of Analytical and Applied Pyrolysis, 2011, 92, 307-313.	2.6	87
3	The role of surface states during photocurrent switching: Intensity modulated photocurrent spectroscopy analysis of BiVO4 photoelectrodes. Applied Catalysis B: Environmental, 2018, 237, 401-408.	10.8	73
4	Graphene oxide and its nanocomposites with EDTA or chitosan induce apoptosis in MCF-7 human breast cancer. RSC Advances, 2021, 11, 29052-29064.	1.7	70
5	Crumpled graphene: preparation and applications. RSC Advances, 2015, 5, 66767-66796.	1.7	69
6	Adsorption of methyl green dye onto multi-walled carbon nanotubes decorated with Ni nanoferrite. Applied Nanoscience (Switzerland), 2013, 3, 251-261.	1.6	64
7	S-TiO2/S-reduced graphene oxide for enhanced photoelectrochemical water splitting. Applied Surface Science, 2018, 439, 1088-1102.	3.1	62
8	Synthesis and characterization of Z-scheme Î±-Fe2O3 NTs/ruptured tubular g-C3N4 for enhanced photoelectrochemical water oxidation. Solar Energy, 2019, 193, 403-412.	2.9	55
9	Decoration of MWCNTs with CoFe2O4 Nanoparticles for Methylene Blue Dye Adsorption. Journal of Solution Chemistry, 2012, 41, 2209-2225.	0.6	50
10	Graphene oxide-based nanocomposites (GO-chitosan and GO-EDTA) for outstanding antimicrobial potential against some Candida species and pathogenic bacteria. International Journal of Biological Macromolecules, 2020, 164, 1370-1383.	3.6	50
11	Effect of pore geometry on the electrocatalytic performance of nickel cobaltite/ carbon xerogel nanocomposite for methanol oxidation. Electrochimica Acta, 2018, 259, 77-85.	2.6	48
12	ZnCr-CO3 LDH/ruptured tubular g-C3N4 composite with increased specific surface area for enhanced photoelectrochemical water splitting. Applied Surface Science, 2020, 508, 145100.	3.1	48
13	CO2 responses based on pure and doped CeO2 nano-pellets. Journal of Materials Research and Technology, 2018, 7, 14-20.	2.6	45
14	Synthesis and evaluation of layered double hydroxide/doxycycline and cobalt ferrite/chitosan nanohybrid efficacy on gram positive and gram negative bacteria. Materials Science and Engineering C, 2018, 91, 361-371.	3.8	45
15	Nanohybrid layered double hydroxide materials as efficient catalysts for methanol electrooxidation. RSC Advances, 2019, 9, 13503-13514.	1.7	45
16	Enhanced photoelectrochemical water splitting characteristics of TiO2 hollow porous spheres by embedding graphene as an electron transfer channel. International Journal of Hydrogen Energy, 2017, 42, 29131-29139.	3.8	44
17	Morphology Transition Engineering of ZnO Nanorods to Nanoplatelets Grafted Mo8O23-MoO2 by Polyoxometalates: Mechanism and Possible Applicability to other Oxides. Scientific Reports, 2017, 7, 5946.	1.6	43
18	Non-precious co-catalysts boost the performance ofÂTiO2 hierarchical hollow mesoporous spheres inÂsolar fuel cells. International Journal of Hydrogen Energy, 2018, 43, 21219-21230.	3.8	41

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19	Highly textured boron/nitrogen co-doped TiO2 with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. Applied Surface Science, 2020, 505, 144419.	3.1	38
20	Microwave synthesis of pure and doped cerium (IV) oxide (CeO2) nanoparticles for methylene blue degradation. Water Science and Technology, 2016, 74, 2325-2336.	1.2	34
21	Chitosan and EDTA conjugated graphene oxide antinematodes in Eggplant: Toward improving plant immune response. International Journal of Biological Macromolecules, 2021, 179, 333-344.	3.6	34
22	Synthesis and characterization of Bi-doped g-C3N4 for photoelectrochemical water oxidation. Solar Energy, 2020, 211, 478-487.	2.9	31
23	Dispersible Conjugated Polymer Nanoparticles as Biointerface Materials for Label-Free Bacteria Detection. ACS Applied Materials & Interfaces, 2020, 12, 39979-39990.	4.0	31
24	Co-Fe layered double hydroxide decorated titanate nanowires for overall photoelectrochemical water splitting. Journal of Alloys and Compounds, 2017, 728, 1171-1179.	2.8	30
25	Fast Removal of Sr(II) From Water by Graphene Oxide and Chitosan Modified Graphene Oxide. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2336-2349.	1.9	29
26	Novel nano-architectured water splitting photoanodes based on TiO2-nanorod mats surface sensitized by ZIF-67 coatings. International Journal of Hydrogen Energy, 2019, 44, 30949-30964.	3.8	29
27	3D NiCr-layered double hydroxide/reduced graphene oxide sand rose-like structure as bifunctional electrocatalyst for methanol oxidation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125067.	2.3	29
28	Selective adsorption and degradation of organic pollutants over Au decorated Co doped titanate nanotubes under simulated solar light irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2018, 88, 201-214.	2.7	27
29	Synthesis, magnetic properties and photocatalytic activity of CuFe₂O₄/MgFe₂O₄and MgFe₂O₄/CuFe₂O₄core/shell nanoparticles. Materials Technology, 2008, 23, 27-32.	1.5	26
30	Efficient Removal of Cobalt(II) and Strontium(II) Metals from Water using Ethylene Diamine Tetraâ€acetic Acid Functionalized Graphene Oxide. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1776-1784.	0.6	26
31	Titania morphologies modified gold nanoparticles for highly catalytic photoelectrochemical water splitting. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 740-749.	2.0	24
32	Surface sensitization of TiO2 nanorod mats by electrodeposition of ZIF-67 for water photo-oxidation. Electrochimica Acta, 2020, 339, 135882.	2.6	24
33	Au-decorated sodium titanate nanotubes as high-performance selective photocatalysts for pollutant degradation. Journal Physics D: Applied Physics, 2017, 50, 144002.	1.3	20
34	Characterization of Rh:SrTiO3 photoelectrodes surface-modified with a cobalt clathrochelate and their application to the hydrogen evolution reaction. Electrochimica Acta, 2017, 258, 255-265.	2.6	19
35	Enhancement of the productivity of the potent bacteriocin avicin A and improvement of its stability using nanotechnology approaches. Scientific Reports, 2017, 7, 10604.	1.6	19
36	Fast technique for the purification of as-prepared graphene oxide suspension. Diamond and Related Materials, 2018, 86, 20-28.	1.8	19

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37	Efficient water decontamination using layered double hydroxide beads nanocomposites. Environmental Science and Pollution Research, 2020, 27, 18985-19003.	2.7	19
38	Room temperature ferromagnetism in Ag doped LaMnO3 nanoparticles. Journal of Alloys and Compounds, 2021, 861, 158570.	2.8	19
39	Fe/Ni Bimetallic Organic Framework Deposited on TiO2 Nanotube Array for Enhancing Higher and Stable Photoelectrochemical Activity of Oxygen Evaluation Reaction. Nanomaterials, 2020, 10, 1688.	1.9	18
40	Influences of tungsten incorporation, morphology and calcination temperature on the electrocatalytic activity of Ni/C nanostructures toward urea elimination from wastewaters. International Journal of Hydrogen Energy, 2020, 45, 8082-8093.	3.8	17
41	New approach for enhancing Chlorella vulgaris biomass recovery using ZnAl-layered double hydroxide nanosheets. Journal of Applied Phycology, 2017, 29, 1399-1407.	1.5	16
42	Novel magnetic standpoints in Na2Ti3O7 nanotubes. Journal of Magnetism and Magnetic Materials, 2019, 476, 207-212.	1.0	16
43	Tungsten incorporation in nickel doped carbon nanofibers as efficient electrocatalyst for ethanol oxidation. Fuel, 2020, 280, 118654.	3.4	16
44	Potentiometric sensor based on novel flowered-like Mg-Al layered double hydroxides/multiwalled carbon nanotubes nanocomposite for bambuterol hydrochloride determination. Materials Science and Engineering C, 2019, 100, 186-195.	3.8	15
45	Efficiency, Kinetics and Thermodynamics of Toluidine Blue Dye Removal from Aqueous Solution Using MWCNTs Decorated with NiFe₂O₄. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 454-470.	1.0	14
46	Sunlight-enhanced catalytic degradation over Agâ€“CuO nanoparticles thin films prepared by DC/RF sputtering technique. Bulletin of Materials Science, 2018, 41, 1.	0.8	13
47	Effect of hydrothermal conditions on microstructures of pure and doped CeO2 nanoparticles and their photo-catalytic activity: degradation mechanism and pathway of methylene blue dye. Research on Chemical Intermediates, 2017, 43, 7171-7192.	1.3	12
48	Water quality assessment of Qarun Lake and heavy metals decontamination from its drains using nanocomposites. IOP Conference Series: Materials Science and Engineering, 2018, 464, 012003.	0.3	12
49	A printed expanded graphite paper based dual band antenna for conformal wireless applications. AEU - International Journal of Electronics and Communications, 2019, 110, 152869.	1.7	11
50	Gamma-Rays Induced Synthesis of Ag-Decorated ZnCo2O4â€“MoS2 Heterostructure as Novel Photocatalyst and Effective Antimicrobial Agent for Wastewater Treatment Application. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 3621-3639.	1.9	11
51	Au-decorated 3D/1D titanium dioxide flower-like/rod bilayers for photoelectrochemical water oxidation. Electrochimica Acta, 2019, 306, 185-197.	2.6	10
52	Water reduction into hydrogen using Rh-doped SrTiO3 photoelectrodes surface-modified by minute amounts of Pt: Insights from heterogeneous kinetic analysis. Electrochimica Acta, 2019, 297, 696-704.	2.6	10
53	Synergistic Effect of High-Performance N,Sâ€“TiO2/N,Sâ€“RGO Nanocomposites for Photoelectrochemical Water Oxidation. ECS Journal of Solid State Science and Technology, 2020, 9, 031002.	0.9	10
54	Preparation and characterization of novel MWCNTs/Fe-Co doped TNTs nanocomposite for potentiometric determination of sulpiride in real water samples. Scientific Reports, 2020, 10, 8607.	1.6	9

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55	Antimicrobial Activity of Cationic Poly(3-hexylthiophene) Nanoparticles Coupled with Dual Fluorescent and Electrochemical Sensing: Theragnostic Prospect. Sensors, 2021, 21, 1715.	2.1	9
56	Aerosol Spray Assisted Synthesis of Ni Doped BaTiO₃ Hollow Porous Spheres/Graphene as Photoanode for Water Splitting. Journal of the Electrochemical Society, 2021, 168, 050540.	1.3	9
57	Highly active atomic Cu catalyst anchored on superlattice CoFe layered double hydroxide for efficient oxygen evolution electrocatalysis. International Journal of Hydrogen Energy, 2022, 47, 9876-9894.	3.8	9
58	Water Photo-Electrooxidation Using Mats of TiO2 Nanorods, Surface Sensitized by a Metalâ€“Organic Framework of Nickel and 1,2-Benzene Dicarboxylic Acid. Hydrogen, 2021, 2, 58-75.	1.7	7
59	Novel Potentiometric Sensors Based on Multiwalled Carbon Nanotubes and <inline-formula> <tex-math notation="LaTeX">eta </tex-math> </inline-formula>-Cyclodextrin for Determination of Antipsychotic Sulpiride: Electrochemical and Surface Morphology Studies. IEEE Sensors Journal, 2018, 18, 3509-3516.	2.4	6
60	Preparation and characterization of (CeO2)xâ€“(Fe2O3)1â^'x nanocomposites: reduction kinetics and hydrogen storage. Rare Metals, 2020, 39, 218-229.	3.6	6
61	Effect of alpha particle irradiations on the structural properties of graphene oxide. International Journal of Modern Physics B, 2018, 32, 1850343.	1.0	4
62	Oxidation of polyphenols and inhibition of photosystem II under acute photooxidative stress. Planta, 2020, 251, 16.	1.6	4
63	Developing the sensing features of copper electrodes as an environmental friendly detection tool for chemical oxygen demand. RSC Advances, 2022, 12, 4199-4208.	1.7	3
64	Reduction and magnetic properties of nanocrystalline MgFe₂O₄/CuFe₂O₄core/shell particles in flowing hydrogen at 400â€“700Â°C. Materials Technology, 2007, 22, 133-138.	1.5	2
65	Bimodal applications of LDH-chitosan nanocomposite: water treatment and antimicrobial activity. IOP Conference Series: Materials Science and Engineering, 2018, 464, 012005.	0.3	2
66	Role of photosensitizers in enhancing the performance of nanocrystalline TiO2 for photoelectrochemical water splitting. SPR Nanoscience, 2021, , 181-212.	0.3	2
67	Implementation of a TiO2/N719-Dye Photo-Anode in a DSSC and Performance Analysis. Russian Journal of Electrochemistry, 2020, 56, 929-937.	0.3	1
68	Expanded graphite monopole antenna printed on flexible paper substrate for 2.4 GHz wireless systems. International Journal of Microwave and Wireless Technologies, 2022, 14, 906-913.	1.5	1
69	Low temperature isothermal reduction behaviour of hydrothermally precipitated CuFe₂O₄/MgFe₂O₄core/shell nanocrystallites. Materials Technology, 2008, 23, 224-230.	1.5	0