Rahim Mohammad-Rezaei

List of Publications by Year
in descending order

52 papers	1,310 citations	394421 19 h-index	361022 35 g-index
54 all docs	54 docs citations	54 times ranked	2102 citing authors

#	Article	IF	Citations
1	Graphene quantum dots as a new substrate for immobilization and direct electrochemistry of glucose oxidase: Application to sensitive glucose determination. Biosensors and Bioelectronics, 2013, 41, 498-504.	10.1	290
2	Scaffolding polymeric biomaterials: Are naturally occurring biological macromolecules more appropriate for tissue engineering?. International Journal of Biological Macromolecules, 2019, 134, 673-694.	7.5	145
3	A novel bio-inspired conductive, biocompatible, and adhesive terpolymer based on polyaniline, polydopamine, and polylactide as scaffolding biomaterial for tissue engineering application. International Journal of Biological Macromolecules, 2020, 147, 1174-1184.	7.5	56
4	Preparation and characterization of Fe₃O₄/graphene quantum dots nanocomposite as an efficient adsorbent in magnetic solid phase extraction: application to determination of bisphenol A in water samples. Analytical Methods, 2014, 6, 8413-8419.	2.7	54
5	Ultrasensitive caspase-3 activity detection using an electrochemical biosensor engineered by gold nanoparticle functionalized MCM-41: Its application during stem cell differentiation. Sensors and Actuators B: Chemical, 2016, 231, 561-575.	7.8	53
6	Multiwall carbon nanotubes decorated on calcined eggshell waste as a novel nano-sorbent: Application for anionic dye Congo red removal. Chemical Engineering Research and Design, 2016, 109, 824-834.	5.6	52
7	Carboxyl and nitrite functionalized graphene quantum dots as a highly active reagent and catalyst for rapid diazotization reaction and synthesis of azo-dyes under solvent-free conditions. Dyes and Pigments, 2015, 113, 522-528.	3.7	40
8	Target-triggered three-way junction in conjugation with catalytic concatemers-functionalized nanocomposites provides a highly sensitive colorimetric method for miR-21 detection. Biosensors and Bioelectronics, 2018, 117, 567-574.	10.1	34
9	A de novo theranostic nanomedicine composed of PEGylated graphene oxide and gold nanoparticles for cancer therapy. Journal of Materials Research, 2020, 35, 430-441.	2.6	33
10	PEGylated graphene oxide/Fe3O4 nanocomposite: Synthesis, characterization, and evaluation of its performance as de novo drug delivery nanosystem. Bio-Medical Materials and Engineering, 2018, 29, 177-190.	0.6	30
11	Preconcentration of mercury(II) using a magnetite@carbon/dithizone nanocomposite, and its quantification by anodic stripping voltammetry. Mikrochimica Acta, 2020, 187, 2.	5.0	30
12	Conducting polymer-based electrically conductive adhesive materials: design, fabrication, properties, and applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 10947-10961.	2.2	30
13	Amperometric determination of L-tyrosine by an enzymeless sensor based on a carbon ceramic electrode modified with copper oxide nanoparticles. Mikrochimica Acta, 2011, 173, 59-64.	5.0	29
14	Ionic liquid-functionalized graphene quantum dots as an efficient quasi-solid-state electrolyte for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 2288-2297.	2.2	25
15	Solid phase extraction of mercury(II) using soluble eggshell membrane protein doped with reduced graphene oxide, and its quantitation by anodic stripping voltammetry. Mikrochimica Acta, 2016, 183, 555-562.	5.0	24
16	Non-enzymatic hydrogen peroxide sensor using an electrode modified with iron pentacyanonitrosylferrate nanoparticles. Mikrochimica Acta, 2010, 171, 257-265.	5.0	23
17	Graphene quantum dotsâ€“eggshell nanocomposite to extract polycyclic aromatic hydrocarbons in water. Environmental Chemistry Letters, 2016, 14, 521-526.	16.2	22
18	Preparation of graphene oxide doped eggshell membrane bioplatform modified Prussian blue nanoparticles as a sensitive hydrogen peroxide sensor. Colloids and Surfaces B: Biointerfaces, 2014, 118, 188-193.	5.0	21

#	Article	IF	Citations
19	Graphene quantum dots coated on quartz sand as efficient and lowâ€cost adsorbent for removal of Hg²⁺ and Pb²⁺ from aqueous solutions. Environmental Progress and Sustainable Energy, 2019, 38, S24.	2.3	21
20	Electrochemical Behavior and Voltammetric Determination of Diclofenac at a Multi-Walled Carbon Nanotube-Ionic Liquid Composite Modified Carbon Ceramic Electrode. Analytical Letters, 2013, 46, 1885-1896.	1.8	18
21	Chemical and electrochemical grafting of polypyrrole onto thiophene-functionalized polystyrene macromonomer. Materials Science in Semiconductor Processing, 2015, 31, 463-470.	4.0	18
22	Efficient synthesis of xanthene derivatives using carboxyl functionalized graphene quantum dots as an acidic nano-catalyst under microwave irradiation. RSC Advances, 2015, 5, 88202-88208.	3.6	18
23	Nickel (II) and cobalt (II) complexes with bidentate nitrogen-sulfur donor pyrazole derivative ligands: Syntheses, characterization, X-ray structure, electrochemical studies, and antibacterial activity. Polyhedron, 2020, 180, 114423.	2.2	18
24	Preparation of tungsten oxide nanoporous thin film at carbon ceramic electrode for electrocatalytic applications. Electrochimica Acta, 2011, 56, 7220-7223.	5.2	17
25	Novel strategies for the synthesis of hydroxylated and carboxylated polystyrenes. Journal of Polymer Research, 2018, 25, 1.	2.4	16
26	Chemical and electrochemical grafting of polyaniline onto poly(vinyl chloride): synthesis, characterization, and materials properties. Polymers for Advanced Technologies, 2016, 27, 1056-1063.	3.2	15
27	<scp>d</scp>â€penicillamine capped cadmium telluride quantum dots as a novel fluorometric sensor of copper(II). Luminescence, 2013, 28, 503-509.	2.9	14
28	Reduced Graphene Oxide|Carbon Ceramic Electrode Modified with CdSâ€Hemoglobin as a Sensitive Hydrogen Peroxide Biosensor. Electroanalysis, 2012, 24, 2094-2101.	2.9	12
29	Enhanced water splitting through different substituted cobalt-salophen electrocatalysts. International Journal of Hydrogen Energy, 2021, 46, 389-402.	7.1	12
30	Water oxidation activity of azoâ€azomethineâ€based Ni (II), Co (II), and Cu (II) complexes. Applied Organometallic Chemistry, 2021, 35, e6103.	3.5	12
31	NiO nanoparticles electrodeposited on reduced GOâ€“CuO nanocomposite bulk modified CCE as a sensitive glucose sensor. Micro and Nano Letters, 2017, 12, 217-222.	1.3	11
32	The heterostructure of ceria and hybrid transition metal oxides with high electrocatalytic performance for water splitting and enzyme-free glucose detection. Journal of Electroanalytical Chemistry, 2022, 915, 116369.	3.8	11
33	Electrodeposition of Cerium Oxide Nanoparticles on the Graphenized Carbon Ceramic Electrode (GCCE) for the Sensitive Determination of Isoprenaline in Human Serum by Differential Pulse Voltammetry (DPV). Analytical Letters, 2022, 55, 2418-2435.	1.8	10
34	Magnetic solid-phase extraction of malachite green using soluble eggshell membrane protein doped with magnetic graphene oxide nanocomposite. International Journal of Environmental Analytical Chemistry, 2018, 98, 1242-1252.	3.3	9
35	Polystyreneâ€modified novolac epoxy resin/clay nanocomposite: Synthesis, and characterization. Polymers for Advanced Technologies, 2019, 30, 1484-1492.	3.2	9
36	Graphene ceramic composite as a new kind of surface-renewable electrode: application to the electroanalysis of ascorbic acid. Mikrochimica Acta, 2014, 181, 1879-1885.	5.0	8

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37	Electrochemically Reduced Graphene Oxide Modified Carbon Ceramic Electrode for the Determination of Pyridoxine. Analytical Chemistry Letters, 2014, 4, 73-85.	1.0	8
38	Electrically conductive adhesive based on novolac-grafted polyaniline: synthesis and characterization. Journal of Materials Science: Materials in Electronics, 2019, 30, 2821-2828.	2.2	8
39	Amine-functionalized carbon nanotubes as curing agent for polystyrene-modified novolac epoxy resin: synthesis, characterization and possible applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	7
40	Manganese oxide nanoparticles electrodeposited on graphenized pencil lead electrode as a sensitive miniaturized pH sensor. Journal of Materials Science: Materials in Electronics, 2019, 30, 1998-2005.	2.2	7
41	Controlled Electrodeposition of Auâ€Copper Oxide Nanocomposite on a Renewable Carbon Ceramic Electrode for Sensitive Determination of NADH in Serum Samples. Electroanalysis, 2020, 32, 606-612.	2.9	7
42	Fabrication of flexible polyaniline@ZnO hollow sphere hybrid films for high-performance NH3 sensors. Journal of Materials Science: Materials in Electronics, 2020, 31, 19119-19129.	2.2	7
43	Synthesis and characterization of poly (1â€vinylâ€3â€butylimidazoliumâ€coâ€methyl methacrylate) gel polymer electrolytes for dyeâ€sensitized solar cells: Effect of structure and composition. Polymers for Advanced Technologies, 2019, 30, 1767-1776.	3.2	6
44	Prussian Blue Nanoparticles Self Assembling on Electrochemically Reduced Graphene Oxide Modified GC Electrode for Sensitive Hydrogen Peroxide Detection. Journal of the Chinese Chemical Society, 2013, 60, 1484-1490.	1.4	4
45	Synthesis and fluorescence studies of dual-responsive nanoparticles based on amphiphilic azobenzene-contained poly (monomethyl itaconate). Journal of Polymer Research, 2016, 23, 1.	2.4	4
46	Preparation of cerium oxideâ€“MWCNTs nanocomposite bulk modified carbon ceramic electrode: a sensitive sensor for tamoxifen determination in human serum samples. Journal of Materials Science: Materials in Electronics, 2021, 32, 14601-14609.	2.2	3
47	Electrodeposition of Ag nanoparticles on graphenized pencil lead electrode as a sensitive and low-cost sensor for iodate determination. Journal of the Iranian Chemical Society, 2018, 15, 2475-2482.	2.2	2
48	Preparation and Characterization of Graphenized Pencil Lead Electrode for Sensitive Determination of Bisphenol A in Canned Food and Plastic Bottled Drinking Water Samples. Sensor Letters, 2017, 15, 729-735.	0.4	2
49	Green and Efficient Synthesis of Fluorescent Bis(pyrazolyl)methanes in Choline Chloride/Urea Deep Eutectic Solvent. Letters in Organic Chemistry, 2020, 17, 548-554.	0.5	2
50	Simultaneous Electrodeposition of Reduced Graphene Quantum Dots/Copper Oxide Nanocomposite on the Surface of Carbon Ceramic Electrode for the Electroanalysis of Adenine and Guanine. Electroanalysis, 0, , .	2.9	1
51	A Renewable and Sensitive Glucose Sensor Based on Bulk-Modified Reduced Graphene Oxide-Nickel Oxide Nanocomposite Carbon Ceramic Electrode. Sensor Letters, 2016, 14, 967-973.	0.4	1
52	Synthesis of CdTe Nanocrystals in Different Sizes and Study of Their Interactions with Dopamine by Fluorescence Spectroscopy. Sensor Letters, 2014, 12, 147-152.	0.4	0