

Abdur Rahim

List of Publications by Year in descending order

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73
papers

2,224
citations

218381

26
h-index

243296

44
g-index

76
all docs

76
docs citations

76
times ranked

3394
citing authors

#	ARTICLE	IF	CITATIONS
1	SiO ₂ /Al ₂ O ₃ /C grafted 3-n propylpyridinium silsesquioxane chloride-based non-enzymatic electrochemical sensor for determination of carcinogenic nitrite in food products. <i>Food Chemistry</i> , 2022, 369, 130970.	4.2	14
2	Non-enzymatic colorimetric sensing of nitrite in fortified meat using functionalized drug mediated manganese dioxide. <i>Materials Chemistry and Physics</i> , 2022, 278, 125729.	2.0	7
3	Non-enzymatic electrochemical dopamine sensing probe based on hexagonal shape zinc-doped cobalt oxide (Zn-Co ₂ O ₄) nanostructure. <i>Mikrochimica Acta</i> , 2022, 189, 37.	2.5	19
4	Improved magnetic and electrical properties of transition metal doped nickel spinel ferrite nanoparticles for prospective applications. <i>Materials Science in Semiconductor Processing</i> , 2022, 148, 106830.	1.9	15
5	The stimulus role of lithium sulfate (Li ₂ SO ₄) on the electrical and mechanical properties of poly (vinyl alcohol)-MWCNTS-based thin film composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 18157-18166.	1.1	3
6	Single-step synthesis of magnesium-iron borates composite; an efficient electrocatalyst for dopamine detection. <i>Microchemical Journal</i> , 2021, 160, 105679.	2.3	3
7	Ionic liquid tuned titanium dioxide nanostructures as an efficient colorimetric sensing platform for dopamine detection. <i>Materials Chemistry and Physics</i> , 2021, 262, 124289.	2.0	19
8	Development of Ag@Ni NPs loaded on MWCNTs for highly sensitive, selective and reproducible non-enzymatic electrochemical detection of glucose. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16166-16181.	1.1	5
9	Non-enzymatic colorimetric biosensor for hydrogen peroxide using lignin-based silver nanoparticles tuned with ionic liquid as a peroxidase mimic. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103164.	2.3	23
10	An electrochemical sensing platform of cobalt oxide@SiO ₂ /C mesoporous composite for the selective determination of hydrazine in environmental samples. <i>Microchemical Journal</i> , 2021, 165, 106171.	2.3	7
11	Designing and development of polyvinylpyrrolidone-tungsten trioxide (PVP-WO ₃) nanocomposite conducting film for highly sensitive, stable, and room temperature humidity sensing. <i>Materials Science in Semiconductor Processing</i> , 2021, 134, 106053.	1.9	12
12	Exploring the NH ₃ gas sensing efficiency of polyvinylpyrrolidone based tungsten trioxide (PVP/WO ₃) Nanocomposites: A recent progression in the toxic gas sensing materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115422.	1.7	1
13	Ionic-Liquid-Stabilized TiO ₂ Nanostructures: A Platform for Detection of Hydrogen Peroxide. <i>ACS Omega</i> , 2021, 6, 32754-32762.	1.6	12
14	Prosthodontics dental materials: From conventional to unconventional. <i>Materials Science and Engineering C</i> , 2020, 106, 110167.	3.8	51
15	Mesoporous silica MCM-41, SBA-15 and derived bridged polysilsesquioxane SBA-PMDA for the selective removal of textile reactive dyes from wastewater. <i>Journal of Molecular Liquids</i> , 2020, 298, 111957.	2.3	19
16	Colorimetric based sensing of dopamine using ionic liquid functionalized drug mediated silver nanostructures. <i>Microchemical Journal</i> , 2020, 159, 105382.	2.3	34
17	Synthesis and characterization of cellulose/hydroxyapatite based dental restorative composites. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1806-1819.	1.9	19
18	Effect of pyridinium based ionic liquid on the sensing property of NiO nanoparticle for the colorimetric detection of hydrogen peroxide. <i>Journal of Molecular Structure</i> , 2020, 1219, 128620.	1.8	13

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19	Conversion of biomass to chemicals using ionic liquids. , 2020, , 1-30.		3
20	The efficacy of polyvinylpyrrolidone (PVP)/CuO nanocomposite as an appropriate room temperature humidity sensing material: fabrication of highly sensitive capacitive resistive type humidity sensor. Journal of Materials Science: Materials in Electronics, 2020, 31, 7698-7707.	1.1	8
21	In situ synthesis of gold nanoparticles on mesoporous silica surface-functionalized with pyridinium ligands. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	5
22	Microwave-assisted synthesis of carbon dots as reductant and stabilizer for silver nanoparticles with enhanced-peroxidase like activity for colorimetric determination of hydrogen peroxide and glucose. Mikrochimica Acta, 2020, 187, 135.	2.5	46
23	Removal of Rhodamine B dye from aqueous solutions using photo-Fenton processes and novel Ni-Cu@MWCNTs photocatalyst. Journal of Molecular Liquids, 2020, 312, 113399.	2.3	66
24	Ionic Liquids Modified Sensors and Biosensors for Detection of Environmental Contaminants. Nanotechnology in the Life Sciences, 2020, , 259-273.	0.4	1
25	Development of collagen/PVA composites patches for osteochondral defects using a green processing of ionic liquid. International Journal of Polymeric Materials and Polymeric Biomaterials, 2019, 68, 590-596.	1.8	16
26	Voltammetric determination of nitrite by using a multiwalled carbon nanotube paste electrode modified with chitosan-functionalized silver nanoparticles. Mikrochimica Acta, 2019, 186, 595.	2.5	24
27	Kinetic and thermodynamic study of oxidative degradation of acid yellow 17 dye by Fenton-like process: Effect of HCO_3^{\ominus} , $\text{CO}_3^{2\ominus}$, Cl^{\ominus} and $\text{SO}_4^{2\ominus}$ on dye degradation. Bulletin of the Chemical Society of Ethiopia, 2019, 33, 243.	0.5	20
28	Ionic liquid as a moderator for improved sensing properties of TiO ₂ nanostructures for the detection of acetone biomarker in diabetes mellitus. Journal of Molecular Liquids, 2019, 294, 111681.	2.3	20
29	Controllable delivery from gentamicin loaded polycaprolactone/grafted silica nanoparticles composite mats. Journal of Molecular Liquids, 2019, 290, 111205.	2.3	16
30	Nonenzymatic amperometric dopamine sensor based on a carbon ceramic electrode of type SiO ₂ /C modified with Co ₃ O ₄ nanoparticles. Mikrochimica Acta, 2019, 186, 471.	2.5	25
31	Preparation of cellulosic Ag-nanocomposites using an ionic liquid. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 785-796.	1.9	5
32	Improved electrical, dielectric and magnetic properties of Al-Sm co-doped NiFe ₂ O ₄ spinel ferrites nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 243, 47-53.	1.7	38
33	COSMO-RS predictions, hydrogen bond basicity values and experimental evaluation of amino acid-based ionic liquids for lignocellulosic biomass dissolution. Journal of Molecular Liquids, 2019, 273, 215-221.	2.3	30
34	Enhancement of electrical and magnetic properties of cobalt ferrite nanoparticles by co-substitution of Li-Cd ions. Journal of Magnetism and Magnetic Materials, 2019, 471, 236-241.	1.0	19
35	Facile solvothermal synthesis of Pt-Cu nanocatalyst with improved electrocatalytic activity toward methanol oxidation. Journal of the Serbian Chemical Society, 2019, 84, 1155-1167.	0.4	1
36	Ionic liquid as a potential solvent for preparation of collagen-alginate-hydroxyapatite beads as bone filler. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 1168-1184.	1.9	26

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37	FTIR analysis of natural and synthetic collagen. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 703-746.	3.4	314
38	Organo-bridged silsesquioxane incorporated mesoporous silica as a carrier for the controlled delivery of ibuprofen and fluorouracil. <i>Journal of Molecular Liquids</i> , 2018, 258, 319-326.	2.3	42
39	Electrochemical sensor for the determination of ketoconazole based on gold nanoparticles modified carbon paste electrode. <i>Journal of Molecular Liquids</i> , 2018, 256, 39-48.	2.3	46
40	In situ immobilization of CuO on SiO ₂ /graphite matrix, modified with benzimidazolium-1-acetate ionic liquid: Application as catechol sensor. <i>Journal of Molecular Liquids</i> , 2018, 251, 450-457.	2.3	12
41	Highly selective and ecofriendly colorimetric method for the detection of iodide using green tea synthesized silver nanoparticles. <i>Journal of Molecular Liquids</i> , 2018, 249, 1047-1051.	2.3	27
42	Ionic liquid coated iron nanoparticles are promising peroxidase mimics for optical determination of H ₂ O ₂ . <i>Mikrochimica Acta</i> , 2018, 185, 302.	2.5	21
43	Nanosilver: new ageless and versatile biomedical therapeutic scaffold. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 733-762.	3.3	147
44	Investigation of ionic liquids as a pretreatment solvent for extraction of collagen biopolymer from waste fish scales using COSMO-RS and experiment. <i>Journal of Molecular Liquids</i> , 2017, 232, 258-264.	2.3	54
45	An overview on enzyme-mimicking nanomaterials for use in electrochemical and optical assays. <i>Mikrochimica Acta</i> , 2017, 184, 323-342.	2.5	169
46	Aging study of the powdered magnetite nanoparticles. <i>Materials Chemistry and Physics</i> , 2017, 189, 86-89.	2.0	6
47	A non-enzymatic glucose sensor based on CuO-nanostructure modified carbon ceramic electrode. <i>Journal of Molecular Liquids</i> , 2017, 248, 425-431.	2.3	29
48	An application of ionic liquid for preparation of homogeneous collagen and alginate hydrogels for skin dressing. <i>Journal of Molecular Liquids</i> , 2017, 243, 720-725.	2.3	43
49	Poly (ethylene oxide) tethered trans-porphyrin: Synthesis, self-assembly with fullerene (C ₆₀) and DNA binding studies. <i>Journal of Molecular Liquids</i> , 2017, 225, 235-239.	2.3	5
50	Amine bridges grafted mesoporous silica, as a prolonged/controlled drug release system for the enhanced therapeutic effect of short life drugs. <i>Materials Science and Engineering C</i> , 2017, 72, 34-41.	3.8	23
51	An Overview on Recent Progress in Electrochemical Biosensors for Antimicrobial Drug Residues in Animal-Derived Food. <i>Sensors</i> , 2017, 17, 1947.	2.1	50
52	Simultaneous Enrichment and On-line Detection of Low-Concentration Copper, Cobalt, and Nickel Ions in Water by Near-Infrared Diffuse Reflectance Spectroscopy Combined with Chemometrics. <i>Journal of AOAC INTERNATIONAL</i> , 2017, 100, 560-565.	0.7	6
53	Aluminum doped mesoporous silica SBA-15 for the removal of remazol yellow dye from water. <i>Microporous and Mesoporous Materials</i> , 2016, 236, 167-175.	2.2	33
54	Evaluation of electrical, dielectric and magnetic characteristics of Al ³⁺ -La doped nickel spinel ferrites. <i>RSC Advances</i> , 2016, 6, 6589-6597.	1.7	60

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55	Extraction of biocompatible hydroxyapatite from fish scales using novel approach of ionic liquid pretreatment. Separation and Purification Technology, 2016, 161, 129-135.	3.9	87
56	Preparation and characterization of glycidyl methacrylate organo bridges grafted mesoporous silica SBA-15 as ibuprofen and mesalamine carrier for controlled release. Materials Science and Engineering C, 2016, 59, 970-979.	3.8	37
57	Effect of Li ⁺ /Cu doping on structural, electrical and magnetic properties of cobalt ferrite nanoparticles. Ceramics International, 2016, 42, 3666-3672.	2.3	15
58	Effect of ionic liquid on thermo-physical properties of bamboo biomass. Wood Science and Technology, 2015, 49, 897-913.	1.4	26
59	New transcription factors involved with postnatal ventral prostate gland development in male Wistar rats during the first week. Life Sciences, 2015, 143, 168-173.	2.0	2
60	Biologically synthesized silver nanoparticle-based colorimetric sensor for the selective detection of Zn ²⁺ . RSC Advances, 2015, 5, 91158-91165.	1.7	37
61	Copper phthalocyanine modified SiO ₂ /C electrode as a biomimetic electrocatalyst for 4-aminophenol in the development of an amperometric sensor. RSC Advances, 2015, 5, 87043-87050.	1.7	14
62	Transformation mechanism of magnetite nanoparticles. Materials Science-Poland, 2015, 33, 278-285.	0.4	41
63	Some Properties of Magnetite Nanoparticles Produced Under Different Conditions. Journal of Electronic Materials, 2015, 44, 303-312.	1.0	3
64	Electrochemical Detection of Nitrite in Meat and Water Samples Using a Mesoporous Carbon Ceramic SiO ₂ /C Electrode Modified with In Situ Generated Manganese(II) Phthalocyanine. Electroanalysis, 2014, 26, 541-547.	1.5	36
65	Electroactive Properties of 1-propyl-3-methylimidazolium Ionic Liquid Covalently Bonded on Mesoporous Silica Surface: Development of an Electrochemical Sensor Probed for NADH, Dopamine and Uric Acid Detection. Electrochimica Acta, 2014, 123, 435-440.	2.6	26
66	Hybrid silica-organic material with immobilized amino groups: surface probing and use for electrochemical determination of nitrite ions. Journal of Sol-Gel Science and Technology, 2013, 67, 145-154.	1.1	9
67	In situ immobilization of nickel(II) phthalocyanine on mesoporous SiO ₂ /C carbon ceramic matrices prepared by the sol-gel method: Use in the simultaneous voltammetric determination of ascorbic acid and dopamine. Electrochimica Acta, 2013, 87, 140-147.	2.6	36
68	Dissolved O ₂ sensor based on cobalt(II) phthalocyanine immobilized in situ on electrically conducting carbon ceramic mesoporous SiO ₂ /C material. Sensors and Actuators B: Chemical, 2013, 177, 231-238.	4.0	22
69	Novel amperometric sensor based on mesoporous silica chemically modified with ensal copper complexes for selective and sensitive dopamine determination. Sensors and Actuators B: Chemical, 2012, 171-172, 712-718.	4.0	22
70	SiO ₂ /C/Cu(II)phthalocyanine as a biomimetic catalyst for dopamine monooxygenase in the development of an amperometric sensor. Electrochimica Acta, 2011, 56, 10116-10121.	2.6	35
71	In situ immobilization of cobalt phthalocyanine on the mesoporous carbon ceramic SiO ₂ /C prepared by the sol-gel process. Evaluation as an electrochemical sensor for oxalic acid. Electrochimica Acta, 2011, 56, 1256-1261.	2.6	32
72	A new synthesis of Fe _{1-x} Mn _x O ₃ /PVA nanocomposites for the removal of heavy metals from water. , 0, 209, 155-169.		3

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73	Fabrication of layered Al-silicate magadiites for the removal of reactive dyes from textile effluents. , 0, 104, 159-168.		5