

Abdur Rahim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3402275/publications.pdf>

Version: 2024-02-01

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	FTIR analysis of natural and synthetic collagen. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 703-746.	3.4	314
2	An overview on enzyme-mimicking nanomaterials for use in electrochemical and optical assays. <i>Mikrochimica Acta</i> , 2017, 184, 323-342.	2.5	169
3	Nanosilver: new ageless and versatile biomedical therapeutic scaffold. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 733-762.	3.3	147
4	Extraction of biocompatible hydroxyapatite from fish scales using novel approach of ionic liquid pretreatment. <i>Separation and Purification Technology</i> , 2016, 161, 129-135.	3.9	87
5	Removal of Rhodamine B dye from aqueous solutions using photo-Fenton processes and novel Ni-Cu@MWCNTs photocatalyst. <i>Journal of Molecular Liquids</i> , 2020, 312, 113399.	2.3	66
6	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
7	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
8	Prosthodontics dental materials: From conventional to unconventional. <i>Materials Science and Engineering C</i> , 2020, 106, 110167.	3.8	51
9	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
10	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
11	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. <i>Mikrochimica Acta</i> , 2020, 187, 135.	2.5	46
12	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
13	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
14	Transformation mechanism of magnetite nanoparticles. <i>Materials Science-Poland</i> , 2015, 33, 278-285.	0.4	41
15	Improved electrical, dielectric and magnetic properties of Al-Sm co-doped NiFe ₂ O ₄ spinel ferrites nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 243, 47-53.	1.7	38
16	Biologically synthesized silver nanoparticle-based colorimetric sensor for the selective detection of Zn ²⁺ . <i>RSC Advances</i> , 2015, 5, 91158-91165.	1.7	37
17	Preparation and characterization of glycidyl methacrylate organo bridges grafted mesoporous silica SBA-15 as ibuprofen and mesalamine carrier for controlled release. <i>Materials Science and Engineering C</i> , 2016, 59, 970-979.	3.8	37
18	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. <i>Electrochimica Acta</i> , 2013, 87, 140-147.	2.6	36

#	ARTICLE	IF	CITATIONS
19	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. <i>Electroanalysis</i> , 2014, 26, 541-547.	1.5	36
20	SiO ₂ /C/Cu(II)phthalocyanine as a biomimetic catalyst for dopamine monooxygenase in the development of an amperometric sensor. <i>Electrochimica Acta</i> , 2011, 56, 10116-10121.	2.6	35
21	Colorimetric based sensing of dopamine using ionic liquid functionalized drug mediated silver nanostructures. <i>Microchemical Journal</i> , 2020, 159, 105382.	2.3	34
22	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
23	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. <i>Electrochimica Acta</i> , 2011, 56, 1256-1261.	2.6	32
24	COSMO-RS predictions, hydrogen bond basicity values and experimental evaluation of amino acid-based ionic liquids for lignocellulosic biomass dissolution. <i>Journal of Molecular Liquids</i> , 2019, 273, 215-221.	2.3	30
25	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
26	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
27	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. <i>Electrochimica Acta</i> , 2014, 123, 435-440.	2.6	26
28	Effect of ionic liquid on thermo-physical properties of bamboo biomass. <i>Wood Science and Technology</i> , 2015, 49, 897-913.	1.4	26
29	Ionic liquid as a potential solvent for preparation of collagen-alginate-hydroxyapatite beads as bone filler. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 1168-1184.	1.9	26
30	Nonenzymatic amperometric dopamine sensor based on a carbon ceramic electrode of type SiO ₂ /C modified with Co ₃ O ₄ nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 471.	2.5	25
31	Voltammetric determination of nitrite by using a multiwalled carbon nanotube paste electrode modified with chitosan-functionalized silver nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 595.	2.5	24
32	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
33	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
34	Novel amperometric sensor based on mesoporous silica chemically modified with ensal copper complexes for selective and sensitive dopamine determination. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 712-718.	4.0	22
35	Dissolved O ₂ sensor based on cobalt(II) phthalocyanine immobilized in situ on electrically conducting carbon ceramic mesoporous SiO ₂ /C material. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 231-238.	4.0	22
36	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

#	ARTICLE	IF	CITATIONS
37	Kinetic and thermodynamic study of oxidative degradation of acid yellow 17 dye by Fenton-like process: Effect of HCO ₃ ^{âˆ’} , CO ₃ ^{2âˆ’} , Cl ^{âˆ’} and SO ₄ ^{2âˆ’} on dye degradation. Bulletin of the Chemical Society of Ethiopia, 2019, 33, 243.	0.5	20
38	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
39	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
40	Mesoporous silica MCM-41, SBA-15 and derived bridged polysilsesquioxane SBA-PMDA for the selective removal of textile reactive dyes from wastewater. Journal of Molecular Liquids, 2020, 298, 111957.	2.3	19
41	Synthesis and characterization of cellulose/hydroxyapatite based dental restorative composites. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 1806-1819.	1.9	19
42	Ionic liquid tuned titanium dioxide nanostructures as an efficient colorimetric sensing platform for dopamine detection. Materials Chemistry and Physics, 2021, 262, 124289.	2.0	19
43	Non-enzymatic electrochemical dopamine sensing probe based on hexagonal shape zinc-doped cobalt oxide (Zn-Co ₂ O ₄) nanostructure. Mikrochimica Acta, 2022, 189, 37.	2.5	19
44	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
45	Controllable delivery from gentamicin loaded polycaprolactone/grafted silica nanoparticles composite mats. Journal of Molecular Liquids, 2019, 290, 111205.	2.3	16
46	Effect of Li ^{âˆ’} -Cu doping on structural, electrical and magnetic properties of cobalt ferrite nanoparticles. Ceramics International, 2016, 42, 3666-3672.	2.3	15
47	Improved magnetic and electrical properties of transition metal doped nickel spinel ferrite nanoparticles for prospective applications. Materials Science in Semiconductor Processing, 2022, 148, 106830.	1.9	15
48	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
49	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. Food Chemistry, 2022, 369, 130970.	4.2	14
50	Effect of pyridinium based ionic liquid on the sensing property of NiO nanoparticle for the colorimetric detection of hydrogen peroxide. Journal of Molecular Structure, 2020, 1219, 128620.	1.8	13
51	In situ immobilization of CuO on SiO ₂ /graphite matrix, modified with benzimidazolium-1-acetate ionic liquid: Application as catechol sensor. Journal of Molecular Liquids, 2018, 251, 450-457.	2.3	12
52	Designing and development of polyvinylpyrrolidone-tungsten trioxide (PVP-WO ₃) nanocomposite conducting film for highly sensitive, stable, and room temperature humidity sensing. Materials Science in Semiconductor Processing, 2021, 134, 106053.	1.9	12
53	Ionic-Liquid-Stabilized TiO ₂ Nanostructures: A Platform for Detection of Hydrogen Peroxide. ACS Omega, 2021, 6, 32754-32762.	1.6	12
54	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

#	ARTICLE	IF	CITATIONS
55	The efficacy of polyvinylpyrrolidone (PVP)/CuO nanocomposite as an appropriate room temperature humidity sensing material: fabrication of highly sensitive capacitive resistive type humidity sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7698-7707.	1.1	8
56	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
57	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
58	Aging study of the powdered magnetite nanoparticles. <i>Materials Chemistry and Physics</i> , 2017, 189, 86-89.	2.0	6
59	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
60	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
61	Preparation of cellulosic Ag-nanocomposites using an ionic liquid. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 785-796.	1.9	5
62	In situ synthesis of gold nanoparticles on mesoporous silica surface-functionalized with pyridinium ligands. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	5
63	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
64	Fabrication of layered Al-silicate magadiites for the removal of reactive dyes from textile effluents. , 0, 104, 159-168.		5
65	Some Properties of Magnetite Nanoparticles Produced Under Different Conditions. <i>Journal of Electronic Materials</i> , 2015, 44, 303-312.	1.0	3
66	Conversion of biomass to chemicals using ionic liquids. , 2020, , 1-30.		3
67	Single-step synthesis of magnesium-iron borates composite; an efficient electrocatalyst for dopamine detection. <i>Microchemical Journal</i> , 2021, 160, 105679.	2.3	3
68	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
69	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
70	New transcription factors involved with postnatal ventral prostate gland development in male Wistar rats during the first week. <i>Life Sciences</i> , 2015, 143, 168-173.	2.0	2
71	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
72	Facile solvothermal synthesis of Pt-Cu nanocatalyst with improved electrocatalytic activity toward methanol oxidation. <i>Journal of the Serbian Chemical Society</i> , 2019, 84, 1155-1167.	0.4	1

#	ARTICLE	IF	CITATIONS
73	Ionic Liquids Modified Sensors and Biosensors for Detection of Environmental Contaminants. Nanotechnology in the Life Sciences, 2020, , 259-273.	0.4	1