

Selcan KarakuÅ

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

720
citations

687363

13
h-index

610901

24
g-index

60
all docs

60
docs citations

60
times ranked

747
citing authors

#	ARTICLE	IF	CITATIONS
1	Single and binary adsorption of reactive dyes from aqueous solutions onto clinoptilolite. <i>Journal of Hazardous Materials</i> , 2010, 184, 164-169.	12.4	80
2	Functionalised CuO nanostructures for the detection of organophosphorus pesticides: A non-enzymatic inhibition approach coupled with nano-scale electrode engineering to improve electrode sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 480-489.	7.8	56
3	In-situ engineered MXene-TiO ₂ / BiVO ₄ hybrid as an efficient photoelectrochemical platform for sensitive detection of soluble CD44 proteins. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112439.	10.1	53
4	Synthesis and Application of a Self-Standing Zirconia-Based Carbon Nanofiber in a Supercapacitor. <i>Energy & Fuels</i> , 2022, 36, 2212-2219.	5.1	46
5	NiWO ₄ -induced partial oxidation of MXene for photo-electrochemical detection of prostate-specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129074.	7.8	44
6	Influence of ultrasound irradiation on the intrinsic viscosity of guar gum-PEG/rosin glycerol ester nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 1118-1127.	7.5	26
7	Highly sensitive non-enzymatic electrochemical glucose biosensor based on PANI: I^{212} Borophene. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10750-10760.	2.2	26
8	Highly sensitive electrochemical determination of captopril using CuO modified ITO electrode: the effect of in situ grown nanostructures over signal sensitivity. <i>RSC Advances</i> , 2017, 7, 19353-19362.	3.6	25
9	Photocatalytic Degradation of Azo Dyes and Organic Contaminants in Wastewater Using Magnetically Recyclable Fe ₃ O ₄ @UA-Cu Nano-catalyst. <i>Catalysis Letters</i> , 2018, 148, 1130-1141.	2.6	25
10	Copper phthalocyanine-borophene nanocomposite-based non-enzymatic electrochemical urea biosensor. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	25
11	Preparation and characterization of antibacterial <i>Senegalia (Acacia) senegal</i> /iron-silica bio-nanocomposites. <i>Applied Surface Science</i> , 2015, 354, 250-255.	6.1	19
12	Highly sensitive and selective rGO based Non-Enzymatic electrochemical sensor for propamocarb fungicide pesticide detection. <i>Food Chemistry</i> , 2022, 372, 131267.	8.2	17
13	Comparative study on ultrasonic assisted adsorption of Basic Blue 3, Basic Yellow 28 and Acid Red 336 dyes onto hydromagnesite stromatolite: kinetic, isotherm and error analysis. <i>Surfaces and Interfaces</i> , 2020, 20, 100528.	3.0	15
14	Investigation of the in vitro cytotoxic effects and wound healing activity of ternary composite substance (hollow silica sphere/gum arabic/methylene blue). <i>International Journal of Biological Macromolecules</i> , 2019, 121, 1194-1202.	7.5	13
15	In Situ Growth of CuWO ₄ Nanospheres over Graphene Oxide for Photoelectrochemical (PEC) Immunosensing of Clinical Biomarker. <i>Sensors</i> , 2020, 20, 148.	3.8	13
16	Turkish Propolis and Its Nano Form Can Ameliorate the Side Effects of Cisplatin, Which Is a Widely Used Drug in the Treatment of Cancer. <i>Plants</i> , 2020, 9, 1075.	3.5	13
17	A sensitive and smartphone colorimetric assay for the detection of hydrogen peroxide based on antibacterial and antifungal matcha extract silver nanoparticles enriched with polyphenol. <i>Polymer Bulletin</i> , 2022, 79, 7363-7389.	3.3	12
18	PEDOT: PSS / I^{212} borophene nanocomposites as an inorganic-organic hybrid electrode for high performance supercapacitors. <i>Inorganic Chemistry Communication</i> , 2022, 139, 109329.	3.9	12

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19	Design, characterization and evaluation of the drug-loaded chitosan/cerium oxide nanoparticles with pH-controlled drug release. <i>Polymer Bulletin</i> , 2022, 79, 6693-6708.	3.3	11
20	Tartaric acid assisted in-situ growth of CuO nanostructures over ITO substrate for the electrocatalytic detection of Sudan I. <i>Materials Science in Semiconductor Processing</i> , 2018, 75, 296-300.	4.0	10
21	Flexible GO-CoPc and GO-NiPc nanocomposite electrodes for hybrid supercapacitors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 116, 113766.	2.7	10
22	Formation and distribution of ZnO nanoparticles and its effect on E. coli in the presence of sepiolite and silica within the chitosan matrix via sonochemistry. <i>Ultrasonics Sonochemistry</i> , 2017, 38, 720-725.	8.2	9
23	Development of Novel Nano-ZnO Enhanced Polymeric Membranes for Water Purification. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 979-988.	3.7	9
24	Cu core shell nanosphere based electrochemical non-enzymatic sensing of glucose. <i>Inorganic Chemistry Communication</i> , 2020, 118, 107991.	3.9	9
25	Nickel phthalocyanine-borophene nanocomposite-based electrodes for non-enzymatic electrochemical detection of glucose. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 16586-16596.	2.2	9
26	An ultra-sensitive smartphone-integrated digital colorimetric and electrochemical <i>Camellia sinensis</i> polyphenols encapsulated CuO nanoparticles-based ammonia biosensor. <i>Inorganic Chemistry Communication</i> , 2022, 143, 109733.	3.9	9
27	Preparation and rheological characterization of Chitosan-Gelatine@ZnO-Si nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 821-828.	7.5	8
28	K-carrageenan/PVA/nano-eggshell biocomposite-based non-enzymatic electrochemical biosensor for low-level urea detection. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	8
29	Effect of Novel Synthesized Nanoeggshell on the Properties of Cementitious Composites. <i>Journal of Advanced Concrete Technology</i> , 2020, 18, 294-306.	1.8	8
30	Sonosynthesis and characterization of konjac gum/xanthan gum supported ironoxide nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1047-1057.	7.5	8
31	Multifunctional maca extract coated CuO nanoparticles with antimicrobial and dopamine sensing activities: A dual electrochemical "Smartphone colorimetric detection system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 431, 114075.	3.9	8
32	Preparation and characterization of carboxymethyl cellulose/poly (ethylene glycol) -rosin pentaerythritolester polymeric nanoparticles: Role of intrinsic viscosity and surface morphology. <i>Surfaces and Interfaces</i> , 2020, 21, 100642.	3.0	7
33	Application of novel synthesized nanocomposites containing β -carrageenan/PVA/eggshell in cement mortars. <i>Materiales De Construccion</i> , 2020, 70, 235.	0.7	7
34	Dual-role of β borophene nanosheets as highly effective antibacterial and antifungal agent. <i>Inorganic Chemistry Communication</i> , 2022, 136, 109150.	3.9	7
35	Acetylsalicylic acid assisted hydrothermal growth of NiO, CuO and Co ₃ O ₄ nanostructures and their application in the electro-catalytic determination of nalbuphine hydrochloride. <i>Journal of Electroanalytical Chemistry</i> , 2017, 807, 137-144.	3.8	6
36	The in-vivo assessment of Turkish propolis and its nano form on testicular damage induced by cisplatin. <i>Journal of Integrative Medicine</i> , 2021, 19, 451-459.	3.1	6

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37	Digital colorimetric and non-enzymatic biosensor with nanoarchitectonics of <i>Lepidium meyenii</i> -silver nanoparticles and cotton fabric: real-time monitoring of milk freshness. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	6
38	Synthesis and Characterization of Konjac Gum/Polyethylene Glycol-Silver Nanoparticles and their Potential Application as a Colorimetric Sensor for Hydrogen Peroxide. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3726-3739.	3.7	5
39	Preparation, characterization and evaluation of a novel CMC/Chitosan- Fe_2O_3 nanoparticles-coated 17 μm PH stainless-steel foam. <i>Polymer Bulletin</i> , 2022, 79, 4133-4151.	3.3	5
40	Kappa carrageenan/PEG-CuO nanoparticles as a multifunctional nanoplatform: digital colorimetric biosensor and anticancer drug nanocarrier. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	5
41	A Novel ZnO Nanoparticle as Drug Nanocarrier in Therapeutic applications: Kinetic Models and Error Analysis. <i>Journal of the Turkish Chemical Society, Section A: Chemistry</i> , 2019, 6, 119-132.	1.1	4
42	Improvement of mechanical strength of mortars by different morphological zinc oxide nanoparticles. <i>Magazine of Concrete Research</i> , 2022, 74, 836-849.	2.0	4
43	Characterization of Poly(vinyl chloride)/Bentonite Nanocomposite Prepared via Melt Blending Method. <i>ACS Symposium Series</i> , 2010, , 103-113.	0.5	3
44	Swelling behaviour, rheological property and drug release profile of the anti-inflammatory drug metamizole sodium from xanthan gum ZnO nanoparticles. <i>Polymer Bulletin</i> , 2022, 79, 357-380.	3.3	3
45	Characterization, optimization, and evaluation of preservative efficacy of carboxymethyl cellulose/hydromagnesite stromatolite bio-nanocomposite. <i>Cellulose</i> , 2022, 29, 3871-3887.	4.9	3
46	3D prickle-like hierarchical NiO nanostructures with oxygen vacancies for electrochemical detection of enrofloxacin antibiotics. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	3
47	PVA:Nano-eggshell microcomposite as an energy storage material for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6496-6503.	2.2	2
48	Improvement of the mechanical properties of cementitious composites by the novel synthesized borophene nanosheets. <i>Journal of Composite Materials</i> , 2022, 56, 1615-1630.	2.4	2
49	Preparation and biological evaluation of novel 5-Fluorouracil and Carmofur loaded polyethylene glycol / rosin ester nanocarriers as potential anticancer agents and ceramidase inhibitors. <i>Journal of Drug Delivery Science and Technology</i> , 2022, , 103456.	3.0	2
50	Mechanical Properties of Cement Mortars Incorporating Zero-Valent Iron Nanoparticles. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	2.9	1
51	Antitumor Efficacy of Ceranib-2 with Nano-Formulation of PEG and. <i>Methods in Molecular Biology</i> , 2021, 2207, 199-220.	0.9	1
52	Design of the polyacrylonitrile-reduced graphene oxide nanocomposite-based non-enzymatic electrochemical biosensor for glucose detection. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	2.2	1
53	The Viscosity Behaviour of PEGylated Locust Bean Gum/Rosin Ester Polymeric Nanoparticles. , 0, , .		0
54	Preparation, Characterization, and Swelling Behavior of PEGylated Guar Gum @ Ag Nanoparticles. , 2020, , .		0

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55	Ultrasound-Assisted Adsorption of Basic Blue 41 onto Salda mud: Optimization and Error Analysis. Journal of the Turkish Chemical Society, Section A: Chemistry, 0, , 57-68.	1.1	0
56	Investigation of Surface Properties of Eggshell based Kappa-Carrageenan-Polyvinyl Alcohol Nanobiocomposite Coated Low Alloyed Steel Foam. European Journal of Science and Technology, 0, , .	0.5	0
57	Energy storage performance of three-dimensional ta nanopillars based electrode for supercapacitors. Journal of Energy Storage, 2022, 51, 104474.	8.1	0
58	Ethanol detection performance of vertically aligned V2O5 nanowire-based sensor. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	0
59	The preparation and biomedical applications of self-assembled two-dimensional sandalose gum supported polyvinyl alcohol/alginate bio-polymeric nanoparticles. Polymer Bulletin, 0, , .	3.3	0