

Ceren Karaman

List of Publications by Year in descending order

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69
papers

4,411
citations

109321

35
h-index

110387

64
g-index

69
all docs

69
docs citations

69
times ranked

1183
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyanazine herbicide monitoring as a hazardous substance by a DNA nanostructure biosensor. <i>Journal of Hazardous Materials</i> , 2022, 423, 127058.	12.4	294
2	A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils. <i>Chemosphere</i> , 2022, 287, 132369.	8.2	246
3	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection. <i>Food and Chemical Toxicology</i> , 2022, 164, 112961.	3.6	231
4	Determination of D&C Red 33 and Patent Blue V Azo dyes using an impressive electrochemical sensor based on carbon paste electrode modified with ZIF-8/g-C ₃ N ₄ /Co and ionic liquid in mouthwash and toothpaste as real samples. <i>Food and Chemical Toxicology</i> , 2022, 162, 112907.	3.6	231
5	A green and sensitive guanine-based DNA biosensor for idarubicin anticancer monitoring in biological samples: A simple and fast strategy for control of health quality in chemotherapy procedure confirmed by docking investigation. <i>Chemosphere</i> , 2022, 291, 132928.	8.2	194
6	Removal of metal ions using a new magnetic chitosan nano-bio-adsorbent; A powerful approach in water treatment. <i>Environmental Research</i> , 2022, 203, 111753.	7.5	185
7	Congo red dye removal from aqueous environment by cationic surfactant modified-biomass derived carbon: Equilibrium, kinetic, and thermodynamic modeling, and forecasting via artificial neural network approach. <i>Chemosphere</i> , 2022, 290, 133346.	8.2	175
8	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 429-439.	9.1	171
9	Novel enzymatic graphene oxide based biosensor for the detection of glutathione in biological body fluids. <i>Chemosphere</i> , 2022, 287, 132187.	8.2	160
10	Biodegradable polymers and their nano-composites for the removal of endocrine-disrupting chemicals (EDCs) from wastewater: A review. <i>Environmental Research</i> , 2021, 202, 111694.	7.5	152
11	Orange Peel Derived Nitrogen and Sulfur Co-doped Carbon Dots: a Nano-booster for Enhancing ORR Electrocatalytic Performance of 3D Graphene Networks. <i>Electroanalysis</i> , 2021, 33, 1356-1369.	2.9	142
12	Recent advances in Ponceau dyes monitoring as food colorant substances by electrochemical sensors and developed procedures for their removal from real samples. <i>Food and Chemical Toxicology</i> , 2022, 161, 112830.	3.6	117
13	Three-dimensional porous reduced graphene oxide decorated with carbon quantum dots and platinum nanoparticles for highly selective determination of azo dye compound tartrazine. <i>Food and Chemical Toxicology</i> , 2021, 158, 112698.	3.6	110
14	A novel electrochemical aflatoxin B1 immunosensor based on gold nanoparticle-decorated porous graphene nanoribbon and Ag nanocube-incorporated MoS ₂ nanosheets. <i>New Journal of Chemistry</i> , 2021, 45, 11222-11233.	2.8	106
15	Sustainable electrode material for high-energy supercapacitor: biomass-derived graphene-like porous carbon with three-dimensional hierarchically ordered ion highways. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12807-12821.	2.8	98
16	The production of rGO/ RuO ₂ aerogel supercapacitor and analysis of its electrochemical performances. <i>Ceramics International</i> , 2021, 47, 34514-34520.	4.8	95
17	Utilization of a double-cross-linked amino-functionalized three-dimensional graphene networks as a monolithic adsorbent for methyl orange removal: Equilibrium, kinetics, thermodynamics and artificial neural network modeling. <i>Environmental Research</i> , 2022, 207, 112156.	7.5	90
18	Tailoring of cobalt phosphide anchored nitrogen and sulfur co-doped three dimensional graphene hybrid: Boosted electrocatalytic performance towards hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2021, 380, 138262.	5.2	89

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19	A Novel Molecularly Imprinting Biosensor Including Graphene Quantum Dots/Multi-Walled Carbon Nanotubes Composite for Interleukin-6 Detection and Electrochemical Biosensor Validation. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 121010.	1.8	87
20	Electrochemical immunosensor development based on core-shell high-crystalline graphitic carbon nitride@carbon dots and Cd _{0.5} Zn _{0.5} S/d-Ti ₃ C ₂ T _x MXene composite for heart-type fatty acidâ€“binding protein detection. <i>Mikrochimica Acta</i> , 2021, 188, 182.	5.0	85
21	Magnetic-MXene-based nanocomposites for water and wastewater treatment: A review. <i>Journal of Water Process Engineering</i> , 2022, 47, 102696.	5.6	83
22	Mechanistic Insights into Catalytic Reduction of N ₂ O by CO over Cu-Embedded Graphene: A Density Functional Theory Perspective. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 041003.	1.8	63
23	An electrochemical molecularly imprinted sensor based on CuBi ₂ O ₄ /rGO@MoS ₂ nanocomposite and its utilization for highly selective and sensitive for linagliptin assay. <i>Chemosphere</i> , 2022, 291, 132807.	8.2	61
24	Electrochemical neuron-specific enolase (NSE) immunosensor based on CoFe ₂ O ₄ @Ag nanocomposite and AuNPs@MoS ₂ /rGO. <i>Analytica Chimica Acta</i> , 2022, 1200, 339609.	5.4	61
25	Effect of process parameters over carbon-based ZIF-62 nano-rooted membrane for environmental pollutants separation. <i>Chemosphere</i> , 2022, 291, 133006.	8.2	54
26	A new approach for electrochemical detection of organochlorine compound lindane: Development of molecular imprinting polymer with polyoxometalate/carbon nitride nanotubes composite and validation. <i>Microchemical Journal</i> , 2020, 157, 105012.	4.5	53
27	Sensitive and Selective Electrochemical Detection of Epirubicin as Anticancer Drug Based on Nickel Ferrite Decorated with Gold Nanoparticles. <i>Micromachines</i> , 2021, 12, 1334.	2.9	53
28	Hydrogen production via sodium borohydride hydrolysis catalyzed by cobalt ferrite anchored nitrogen-and sulfur co-doped graphene hybrid nanocatalyst: Artificial neural network modeling approach. <i>Chemical Engineering Research and Design</i> , 2022, 183, 557-566.	5.6	53
29	A novel electrochemical kidney injury molecule-1 (KIM-1) immunosensor based covalent organic frameworks-gold nanoparticles composite and porous NiCo ₂ S ₄ @CeO ₂ microspheres: The monitoring of acute kidney injury. <i>Applied Surface Science</i> , 2022, 578, 152093.	6.1	52
30	Preparation of high surface area nitrogen doped graphene for the assessment of morphologic properties and nitrogen content impacts on supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2020, 868, 114197.	3.8	49
31	Sensitive sandwich-type electrochemical SARS-CoVâ€“2 nucleocapsid protein immunosensor. <i>Mikrochimica Acta</i> , 2021, 188, 425.	5.0	44
32	A molecularly imprinted electrochemical biosensor based on hierarchical Ti ₂ Nb ₁₀ O ₂₉ (TNO) for glucose detection. <i>Mikrochimica Acta</i> , 2022, 189, 24.	5.0	44
33	Molecular Imprinted Sensor Including Au Nanoparticles/Polyoxometalate/Two-Dimensional Hexagonal Boron Nitride Nanocomposite for Diazinon Recognition. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 101006.	1.8	43
34	Approaches towards the development of heteropolyacid-based high temperature membranes for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6638-6656.	7.1	42
35	A comparative study of CO catalytic oxidation on the single vacancy and di-vacancy graphene supported single-atom iridium catalysts: A DFT analysis. <i>Surfaces and Interfaces</i> , 2021, 25, 101293.	3.0	40
36	Electrochemical cardiac troponin I immunosensor based on nitrogen and boron-doped graphene quantum dots electrode platform and Ce-doped SnO ₂ /SnS ₂ signal amplification. <i>Materials Today Chemistry</i> , 2022, 23, 100666.	3.5	39

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37	Correlation between the Molecular Structure of Reducing Agent and pH of Graphene Oxide Dispersion on the Formation of 3D-Graphene Networks. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 071003.	1.8	37
38	Cerium functionalized graphene nano-structures and their applications; A review. <i>Environmental Research</i> , 2022, 208, 112685.	7.5	36
39	Boosting Effect of Nitrogen and Phosphorous Co-doped Three-Dimensional Graphene Architecture: Highly Selective Electrocatalysts for Carbon Dioxide Electroreduction to Formate. <i>Topics in Catalysis</i> , 2022, 65, 656-667.	2.8	32
40	Polyaniline-Manganese Ferrite Supported Platinum-Ruthenium Nanohybrid Electrocatalyst: Synergizing Tailoring Toward Boosted Ethanol Oxidation Reaction. <i>Topics in Catalysis</i> , 2022, 65, 716-725.	2.8	29
41	Irradiated rGO electrode-based high-performance supercapacitors: Boosting effect of GO/rGO mixed nanosheets on electrochemical performance. <i>Fuel</i> , 2022, 328, 125298.	6.4	29
42	Electrochemical Tau Protein Immunosensor Based on MnS/GO/PANI and Magnetite-Incorporated Gold Nanoparticles. <i>Electroanalysis</i> , 2022, 34, 1519-1528.	2.9	26
43	Investigation of the effects of different composite materials on neutron contamination caused by medical LINAC / Untersuchung der Auswirkungen verschiedener Verbundmaterialien auf die Neutronenkontamination durch medizinische LINAC. <i>Kerntechnik</i> , 2020, 85, 401-407.	0.2	24
44	Enhanced methanol electrooxidation by electroactivated Pd/Ni(OH) ₂ /N-rGO catalyst. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6680-6690.	7.1	24
45	Electrochemical Î±-fetoprotein immunosensor based on Fe ₃ O ₄ NPs@covalent organic framework decorated gold nanoparticles and magnetic nanoparticles including SiO ₂ @TiO ₂ . <i>Mikrochimica Acta</i> , 2022, 189, .	5.0	24
46	COVID-19 diagnosis from chest X-ray images using transfer learning: Enhanced performance by debiasing dataloader. <i>Journal of X-Ray Science and Technology</i> , 2021, 29, 19-36.	1.0	21
47	Magnetic nanoparticles based on cerium MOF supported on the MWCNT as a fluorescence quenching sensor for determination of 6-mercaptopurine. <i>Environmental Pollution</i> , 2022, 305, 119230.	7.5	19
48	Evaporation characteristics of nanofuel droplets: A review. <i>Fuel</i> , 2022, 319, 123731.	6.4	19
49	Fabrication of sensor based on polyvinyl alcohol functionalized tungsten oxide/reduced graphene oxide nanocomposite for electrochemical monitoring of 4-aminophenol. <i>Environmental Research</i> , 2022, 212, 113372.	7.5	19
50	High energy supercapacitors based on functionalized carbon nanotubes: Effect of atomic oxygen doping via various radiation sources. <i>Fuel</i> , 2022, 324, 124497.	6.4	18
51	Mechanism of methanol decomposition on the Cu-Embedded graphene: A DFT study. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6624-6637.	7.1	17
52	Boosting the electrocatalytic activity of ZrO ₂ /MWCNT supported PdPt bi-metallic electrocatalyst towards ethanol oxidation reaction by electrochemical activation process and modeling by artificial neural network approach. <i>Chemical Engineering Research and Design</i> , 2022, 180, 38-49.	5.6	17
53	Simultaneous improvements in antibacterial and flame retardant properties of PET by use of bio-nanotechnology for fabrication of high performance PET bionanocomposites. <i>Environmental Research</i> , 2022, 206, 112281.	7.5	14
54	Ultrasensitive and highly selective ðœturn-onðœ fluorescent sensor for the detection and measurement of melatonin in juice samples. <i>Chemosphere</i> , 2022, 295, 133869.	8.2	14

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55	Direct utilization of radioactive irradiated graphite as a high-energy supercapacitor a promising electrode material. <i>Fuel</i> , 2022, 325, 124843.	6.4	14
56	A system dynamics approach to pollution remediation and mitigation based on increasing the share of renewable resources. <i>Environmental Research</i> , 2022, 205, 112458.	7.5	13
57	Engineering of N,P,S-Triple doped 3-dimensional graphene architecture: Catalyst-support for surface-clean Pd nanoparticles to boost the electrocatalysis of ethanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6691-6701.	7.1	13
58	An improved electrochemical sensor based on triton X-100 functionalized SnO ₂ nanoparticles for ultrasensitive determination of cadmium. <i>Chemosphere</i> , 2022, 300, 134634.	8.2	12
59	Theoretical Insights into the NH ₃ Decomposition Mechanism on the Cu- and Pt- Embedded Graphene Surfaces: A DFT Approach. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 101008.	1.8	11
60	Design of Co-Sn bimetallic nanoalloys as electrocatalyst for alkaline methanol oxidation reaction: Exploring the effect of electroactivation process. <i>Fuel</i> , 2022, 319, 123727.	6.4	9
61	Modelling of Remazol Black-B adsorption on chemically modified waste orange peel: pH shifting effect of acidic treatment. <i>Sakarya University Journal of Science</i> , 2020, 24, 1135-1150.	0.7	7
62	Reducing the risk of death induced by aluminum phosphide poisoning: The new therapies. <i>Chemosphere</i> , 2022, 294, 133800.	8.2	7
63	Electrosorptive disinfection of <i>Escherichia coli</i> (<i>E. coli</i>) aqueous solutions by activated carbon monolith electrodes. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 157-165.	2.1	6
64	Thermal comfort performances of cellulosic socks evaluated by a foot manikin system and moisture management tester. <i>International Journal of Clothing Science and Technology</i> , 2019, 31, 272-283.	1.1	4
65	Investigation of photoneutron contamination from the 18-MV photon beam in a medical linear accelerator. <i>Materiali in Tehnologije</i> , 2019, 53, 699-704.	0.5	2
66	Yapay Sınır Aylaklama ile Crystal Violet Katyonik Boyarmaddesinin Biyokimyasal-temelli Grafen Benzeri Çizgili Karbon Üzerine Biyosorpsiyonunun Tahmin Edilmesi. <i>European Journal of Science and Technology</i> , 0, , .	0.5	1
67	Yapay Sınır Aylaklama ile Atık Portakal Kabuğundan Elde Edilen Grafen Benzeri Çizgili Karbon Üzerinde Arsenik (V) Biyosorpsiyonunun Modellenmesi. <i>European Journal of Science and Technology</i> , 0, , .	0.5	1
68	Design and Thermal Analysis of High Power LED Light. <i>European Mechanical Science</i> , 2021, 5, 28-33.	0.9	0
69	Mapping and Scientometric Measures on Research Publications of Energy Storage and Conversion. <i>Topics in Catalysis</i> , 0, , 1.	2.8	0