

Ceren Karaman

List of Publications by Year in descending order

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69
papers

4,411
citations

125106

35
h-index

124990

64
g-index

69
all docs

69
docs citations

69
times ranked

1339
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.	6.5	294
2	A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils. <i>Chemosphere</i> , 2022, 287, 132369.	4.2	246
3	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection. <i>Food and Chemical Toxicology</i> , 2022, 164, 112961.	1.8	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.	1.8	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.	4.2	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.	3.7	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.	4.2	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.	5.3	171
9	Novel enzymatic graphene oxide based biosensor for the detection of glutathione in biological body fluids. <i>Chemosphere</i> , 2022, 287, 132187.	4.2	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.	3.7	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.	1.5	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.	1.8	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.	1.8	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.	1.4	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.	1.3	98
16	The production of rGO/ RuO ₂ aerogel supercapacitor and analysis of its electrochemical performances. <i>Ceramics International</i> , 2021, 47, 34514-34520.	2.3	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.	3.7	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.	2.6	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. ECS Journal of Solid State Science and Technology, 2020, 9, 121010.	0.9	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. Mikrochimica Acta, 2021, 188, 182.	2.5	85
21	Magnetic-MXene-based nanocomposites for water and wastewater treatment: A review. Journal of Water Process Engineering, 2022, 47, 102696.	2.6	83
22	Mechanistic Insights into Catalytic Reduction of N ₂ O by CO over Cu-Embedded Graphene: A Density Functional Theory Perspective. ECS Journal of Solid State Science and Technology, 2021, 10, 041003.	0.9	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. Chemosphere, 2022, 291, 132807.	4.2	61
24	Electrochemical neuron-specific enolase (NSE) immunosensor based on CoFe ₂ O ₄ @Ag nanocomposite and AuNPs@MoS ₂ /rGO. Analytica Chimica Acta, 2022, 1200, 339609.	2.6	61
25	Effect of process parameters over carbon-based ZIF-62 nano-rooted membrane for environmental pollutants separation. Chemosphere, 2022, 291, 133006.	4.2	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. Microchemical Journal, 2020, 157, 105012.	2.3	53
27	Sensitive and Selective Electrochemical Detection of Epirubicin as Anticancer Drug Based on Nickel Ferrite Decorated with Gold Nanoparticles. Micromachines, 2021, 12, 1334.	1.4	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. Chemical Engineering Research and Design, 2022, 183, 557-566.	2.7	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. Applied Surface Science, 2022, 578, 152093.	3.1	52
30	Preparation of high surface area nitrogen doped graphene for the assessment of morphologic properties and nitrogen content impacts on supercapacitors. Journal of Electroanalytical Chemistry, 2020, 868, 114197.	1.9	49
31	Sensitive sandwich-type electrochemical SARS-CoVâ€“2 nucleocapsid protein immunosensor. Mikrochimica Acta, 2021, 188, 425.	2.5	44
32	A molecularly imprinted electrochemical biosensor based on hierarchical Ti ₂ Nb ₁₀ O ₂₉ (TNO) for glucose detection. Mikrochimica Acta, 2022, 189, 24.	2.5	44
33	Molecular Imprinted Sensor Including Au Nanoparticles/Polyoxometalate/Two-Dimensional Hexagonal Boron Nitride Nanocomposite for Diazinon Recognition. ECS Journal of Solid State Science and Technology, 2020, 9, 101006.	0.9	43
34	Approaches towards the development of heteropolyacid-based high temperature membranes for PEM fuel cells. International Journal of Hydrogen Energy, 2023, 48, 6638-6656.	3.8	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. Surfaces and Interfaces, 2021, 25, 101293.	1.5	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. Materials Today Chemistry, 2022, 23, 100666.	1.7	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.	0.9	37
38	Cerium functionalized graphene nano-structures and their applications; A review. <i>Environmental Research</i> , 2022, 208, 112685.	3.7	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.	1.3	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.	1.3	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.	3.4	29
42	Electrochemical Tau Protein Immunosensor Based on MnS/GO/PANI and Magnetite-Incorporated Gold Nanoparticles. <i>Electroanalysis</i> , 2022, 34, 1519-1528.	1.5	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.	3.8	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, .	2.5	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.	0.7	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.	3.7	19
48	Evaporation characteristics of nanofuel droplets: A review. <i>Fuel</i> , 2022, 319, 123731.	3.4	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.	3.7	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.	3.4	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.	3.8	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.	2.7	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.	3.7	14
54	Ultrasensitive and highly selective ðœturn-onâ€ fluorescent sensor for the detection and measurement of melatonin in juice samples. <i>Chemosphere</i> , 2022, 295, 133869.	4.2	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.	3.4	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.	3.7	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.	3.8	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.	4.2	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.	0.9	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.	3.4	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.	0.3	7
62	Reducing the risk of death induced by aluminum phosphide poisoning: The new therapies. <i>Chemosphere</i> , 2022, 294, 133800.	4.2	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.	1.0	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.	0.5	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.	0.3	2
66	Yapay Sınır Aşmayan Yaklaşım 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 Aşmayan Yaklaşım 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.	0.4	0
69	Mapping and Scientometric Measures on Research Publications of Energy Storage and Conversion. <i>Topics in Catalysis</i> , 0, , 1.	1.3	0