

# Necip Atar

## List of Publications by Year in descending order

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178  
papers

15,779  
citations

8755

75  
h-index

18647

119  
g-index

179  
all docs

179  
docs citations

179  
times ranked

13555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of aspect ratio and surface defects on the photocatalytic activity of ZnO nanorods. Scientific Reports, 2014, 4, 4596.	3.3	761
2	A novel magnetic Fe@Au core-shell nanoparticles anchored graphene oxide recyclable nanocatalyst for the reduction of nitrophenol compounds. Water Research, 2014, 48, 210-217.	11.3	565
3	Ce <sup>3+</sup> -ion-induced visible-light photocatalytic degradation and electrochemical activity of ZnO/CeO <sub>2</sub> nanocomposite. Scientific Reports, 2016, 6, 31641.	3.3	506
4	A Novel DNA Biosensor Based on a Pencil Graphite Electrode Modified with Polypyrrole/Functionalized Multiwalled Carbon Nanotubes for Determination of 6-Mercaptopurine Anticancer Drug. Industrial & Engineering Chemistry Research, 2015, 54, 3634-3639.	3.7	395
5	A novel electro analytical nanosensor based on graphene oxide/silver nanoparticles for simultaneous determination of quercetin and morin. Electrochimica Acta, 2014, 120, 204-211.	5.2	388
6	Strategies of regulating Zn <sup>2+</sup> solvation structures for dendrite-free and side reaction-suppressed zinc-ion batteries. Energy and Environmental Science, 2022, 15, 499-528.	30.8	313
7	A novel detection method for organophosphorus insecticide fenamiphos: Molecularly imprinted electrochemical sensor based on core-shell Co <sub>3</sub> O <sub>4</sub> @MOF-74 nanocomposite. Journal of Colloid and Interface Science, 2021, 592, 174-185.	9.4	307
8	Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries. Advanced Energy Materials, 2021, 11, 2101299.	19.5	304
9	An amplified voltammetric sensor based on platinum nanoparticle/polyoxometalate/two-dimensional hexagonal boron nitride nanosheets composite and ionic liquid for determination of N-hydroxysuccinimide in water samples. Journal of Molecular Liquids, 2020, 310, 113185.	4.9	248
10	A novel voltammetric sensor based on gold nanoparticles involved in p-aminothiophenol functionalized multi-walled carbon nanotubes: Application to the simultaneous determination of quercetin and rutin. Electrochimica Acta, 2014, 119, 24-31.	5.2	243
11	A sensitive molecular imprinted electrochemical sensor based on gold nanoparticles decorated graphene oxide: Application to selective determination of tyrosine in milk. Sensors and Actuators B: Chemical, 2015, 210, 149-157.	7.8	242
12	A novel and sensitive electrochemical DNA biosensor based on Fe@Au nanoparticles decorated graphene oxide. Electrochimica Acta, 2014, 125, 38-47.	5.2	218
13	A sensitive molecularly imprinted polymer based quartz crystal microbalance nanosensor for selective determination of lovastatin in red yeast rice. Food Chemistry, 2015, 185, 430-436.	8.2	208
14	Carbon-Doped ZnO Nanostructures: Facile Synthesis and Visible Light Photocatalytic Applications. Journal of Physical Chemistry C, 2015, 119, 20544-20554.	3.1	193
15	Development of cardiac troponin-I biosensor based on boron nitride quantum dots including molecularly imprinted polymer. Biosensors and Bioelectronics, 2019, 126, 418-424.	10.1	186
16	Molecularly imprinted electrochemical biosensor based on Fe@Au nanoparticles involved in 2-aminoethanethiol functionalized multi-walled carbon nanotubes for sensitive determination of cefexime in human plasma. Biosensors and Bioelectronics, 2014, 60, 277-285.	10.1	181
17	Inhibition of Manganese Dissolution in Mn <sub>2</sub> O <sub>3</sub> Cathode with Controllable Ni <sup>2+</sup> Incorporation for High-Performance Zinc Ion Battery. Advanced Functional Materials, 2021, 31, 2009412.	14.9	176
18	Sensitive and selective determination of aqueous triclosan based on gold nanoparticles on polyoxometalate/reduced graphene oxide nanohybrid. RSC Advances, 2015, 5, 65953-65962.	3.6	169

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19	Sensitive voltammetric sensor based on polyoxometalate/reduced graphene oxide nanomaterial: Application to the simultaneous determination of l-tyrosine and l-tryptophan. Sensors and Actuators B: Chemical, 2016, 233, 47-54.	7.8	168
20	CoFe <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> decorated reduced graphene oxide nanocomposite for photocatalytic degradation of chlorpyrifos. Journal of Molecular Liquids, 2015, 208, 122-129.	4.9	166
21	Magnetic iron oxide and iron oxide@gold nanoparticle anchored nitrogen and sulfur-functionalized reduced graphene oxide electrocatalyst for methanol oxidation. RSC Advances, 2015, 5, 26402-26409.	3.6	157
22	Biosorption of acidic dyes from aqueous solution by Paenibacillus macerans: Kinetic, thermodynamic and equilibrium studies. Chemical Engineering Journal, 2009, 150, 122-130.	12.7	153
23	A universal and facile approach to suppress dendrite formation for a Zn and Li metal anode. Journal of Materials Chemistry A, 2020, 8, 9331-9344.	10.3	147
24	A novel voltammetric sensor based on p-aminothiophenol functionalized graphene oxide/gold nanoparticles for determining quercetin in the presence of ascorbic acid. Journal of Electroanalytical Chemistry, 2013, 698, 9-16.	3.8	141
25	A novel efficient photocatalyst based on TiO <sub>2</sub> nanoparticles involved boron enrichment waste for photocatalytic degradation of atrazine. Chemical Engineering Journal, 2014, 250, 288-294.	12.7	139
26	Vanadium-Based Oxide on Two-Dimensional Vanadium Carbide MXene (V <sub>2</sub> O <sub>x</sub> @V <sub>2</sub> CT <sub>x</sub> ) as Cathode for Rechargeable Aqueous Zinc-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 4677-4689.	5.1	138
27	A novel detection approach for serotonin by graphene quantum dots/two-dimensional (2D) hexagonal boron nitride nanosheets with molecularly imprinted polymer. Applied Surface Science, 2018, 458, 648-655.	6.1	137
28	Batch and column studies of phosphate and nitrate adsorption on waste solids containing boron impurity. Chemical Engineering Journal, 2013, 222, 108-119.	12.7	133
29	Sensitive determination of citrinin based on molecular imprinted electrochemical sensor. Applied Surface Science, 2016, 362, 315-322.	6.1	133
30	Removal of Cr(VI) through calixarene based polymer inclusion membrane from chrome plating bath water. Chemical Engineering Journal, 2016, 283, 141-149.	12.7	132
31	Adsorptive and photocatalytic removal of reactive dyes by silver nanoparticle-colemanite ore waste. Chemical Engineering Journal, 2014, 242, 333-340.	12.7	131
32	Polymeric materials and films in dentistry: An overview. Journal of Advanced Research, 2018, 14, 25-34.	9.5	131
33	NiMn Layered Double Hydroxide Nanosheets In-situ Anchored on Ti <sub>3</sub> C <sub>2</sub> MXene via Chemical Bonds for Superior Supercapacitors. ACS Applied Energy Materials, 2020, 3, 5949-5964.	5.1	131
34	Biosorption of lead from aqueous solutions by Bacillus strains possessing heavy-metal resistance. Chemical Engineering Journal, 2011, 173, 422-428.	12.7	127
35	Equilibrium and kinetic adsorption study of Basic Yellow 28 and Basic Red 46 by a boron industry waste. Journal of Hazardous Materials, 2009, 161, 148-156.	12.4	125
36	Sensitive analysis of simazine based on platinum nanoparticles on polyoxometalate/multi-walled carbon nanotubes. Journal of Colloid and Interface Science, 2016, 470, 14-21.	9.4	125

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37	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. <i>Polymers</i> , 2020, 12, 918.	4.5	124
38	A novel impedimetric biosensor based on graphene oxide/gold nanoplatform for detection of DNA arrays. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1201-1211.	7.8	120
39	A novel glucose biosensor platform based on Ag@AuNPs modified graphene oxide nanocomposite and SERS application. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 231-237.	9.4	120
40	A Highly Efficient Nanomaterial with Molecular Imprinting Polymer: Carbon Nitride Nanotubes Decorated with Graphene Quantum Dots for Sensitive Electrochemical Determination of Chlorpyrifos. <i>Journal of the Electrochemical Society</i> , 2017, 164, B223-B229.	2.9	120
41	Heterostructured $\text{Ti}_3\text{C}_2/\text{TiO}_2/\text{g-C}_3\text{N}_4$ Nanocomposites with Enhanced Visible-Light Photocatalytic Hydrogen Production Activity. <i>ChemSusChem</i> , 2018, 11, 4226-4236.	6.8	120
42	Direct Methanol Fuel Cell Based on Functionalized Graphene Oxide with Mono-metallic and Bi-metallic Nanoparticles: Electrochemical Performances of Nanomaterials for Methanol Oxidation. <i>Electroanalysis</i> , 2016, 28, 570-579.	2.9	117
43	A novel electrochemical sensor based on calixarene functionalized reduced graphene oxide: Application to simultaneous determination of Fe(III), Cd(II) and Pb(II) ions. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 525-531.	9.4	114
44	A novel sensitive Cu(II) and Cd(II) nanosensor platform: Graphene oxide terminated p-aminophenyl modified glassy carbon surface. <i>Electrochimica Acta</i> , 2013, 112, 541-548.	5.2	112
45	Electrochemical Detection of Atrazine by Platinum Nanoparticles/Carbon Nitride Nanotubes with Molecularly Imprinted Polymer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 7631-7639.	3.7	109
46	A novel electrochemical aflatoxin B1 immunosensor based on gold nanoparticle-decorated porous graphene nanoribbon and Ag nanocube-incorporated $\text{MoS}_2$ nanosheets. <i>New Journal of Chemistry</i> , 2021, 45, 11222-11233.	2.8	106
47	Molecular imprinted nanosensor based on surface plasmon resonance: Application to the sensitive determination of amoxicillin. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 28-35.	7.8	102
48	A highly selective and sensitive voltammetric sensor with molecularly imprinted polymer based silver@gold nanoparticles/ionic liquid modified glassy carbon electrode for determination of ceftizoxime. <i>Journal of Molecular Liquids</i> , 2018, 251, 212-217.	4.9	100
49	Catalytic activity of Fe@Ag nanoparticle involved calcium alginate beads for the reduction of nitrophenols. <i>Journal of Molecular Liquids</i> , 2014, 190, 133-138.	4.9	99
50	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
51	Adsorption of cadmium (II) and zinc (II) on boron enrichment process waste in aqueous solutions: Batch and fixed-bed system studies. <i>Chemical Engineering Journal</i> , 2012, 192, 1-7.	12.7	96
52	Molecular imprinted polypyrrole modified glassy carbon electrode for the determination of tobramycin. <i>Electrochimica Acta</i> , 2013, 112, 37-43.	5.2	96
53	New molecular imprinted voltammetric sensor for determination of ochratoxin A. <i>Materials Science and Engineering C</i> , 2016, 61, 368-375.	7.3	95
54	Elimination of Zinc Dendrites by Graphene Oxide Electrolyte Additive for Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4602-4609.	5.1	91

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55	Electrochemically grafted etodolac film on glassy carbon for Pb(II) determination. Sensors and Actuators B: Chemical, 2012, 171-172, 1207-1215.	7.8	90
56	Liquid phase determination of adrenaline uses a voltammetric sensor employing CuFe <sub>2</sub> O <sub>4</sub> nanoparticles and room temperature ionic liquids. Journal of Molecular Liquids, 2016, 213, 369-373.	4.9	90
57	A sensitive molecular imprinted surface plasmon resonance nanosensor for selective determination of trace triclosan in wastewater. Sensors and Actuators B: Chemical, 2015, 216, 638-644.	7.8	89
58	Tailoring of cobalt phosphide anchored nitrogen and sulfur co-doped three dimensional graphene hybrid: Boosted electrocatalytic performance towards hydrogen evolution reaction. Electrochimica Acta, 2021, 380, 138262.	5.2	89
59	Development of molecular imprinted sensor including graphitic carbon nitride/N-doped carbon dots composite for novel recognition of epinephrine. Composites Part B: Engineering, 2019, 175, 107113.	12.0	88
60	A molecular imprinted SPR biosensor for sensitive determination of citrinin in red yeast rice. Food Chemistry, 2015, 184, 7-11.	8.2	87
61	Functionalized Graphene Quantum Dots with Bi-Metallic Nanoparticles Composite: Sensor Application for Simultaneous Determination of Ascorbic Acid, Dopamine, Uric Acid and Tryptophan. Journal of the Electrochemical Society, 2016, 163, B718-B725.	2.9	87
62	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.	1.8	87
63	Charge Engineering of Mo <sub>2</sub> C@Defect-Rich N-Doped Carbon Nanosheets for Efficient Electrocatalytic H <sub>2</sub> Evolution. Nano-Micro Letters, 2019, 11, 45.	27.0	86
64	Simultaneous determination of $\beta$ -agonists on hexagonal boron nitride nanosheets/multi-walled carbon nanotubes nanocomposite modified glassy carbon electrode. Materials Science and Engineering C, 2019, 96, 669-676.	7.3	86
65	Adsorption of Anionic Dyes on Boron Industry Waste in Single and Binary Solutions Using Batch and Fixed-Bed Systems. Journal of Chemical & Engineering Data, 2011, 56, 508-516.	1.9	85
66	Electrochemical immunosensor development based on core-shell high-crystalline graphitic carbon nitride@carbon dots and Cd <sub>0.5</sub> Zn <sub>0.5</sub> S/d-Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene composite for heart-type fatty acid-binding protein detection. Mikrochimica Acta, 2021, 188, 182.	5.0	85
67	Highly Selective and Sensitive Voltammetric Sensor Based on Ruthenium Nanoparticle Anchored Calix[4]amidocrown-5 Functionalized Reduced Graphene Oxide: Simultaneous Determination of Quercetin, Morin and Rutin in Grape Wine. Electroanalysis, 2016, 28, 611-619.	2.9	83
68	Core-Shell Nanoparticles/Two-Dimensional (2D) Hexagonal Boron Nitride Nanosheets with Molecularly Imprinted Polymer for Electrochemical Sensing of Cypermethrin. Journal of the Electrochemical Society, 2018, 165, H255-H262.	2.9	83
69	Validated electrochemical immunosensor for ultra-sensitive procalcitonin detection: Carbon electrode modified with gold nanoparticles functionalized sulfur doped MXene as sensor platform and carboxylated graphitic carbon nitride as signal amplification. Sensors and Actuators B: Chemical, 2020, 319, 128195.	7.8	82
70	Ultrahigh capacity anode material for lithium ion battery based on rod gold nanoparticles decorated reduced graphene oxide. Thin Solid Films, 2015, 590, 156-162.	1.8	81
71	A novel determination of curcumin via Ru@Au nanoparticle decorated nitrogen and sulfur-functionalized reduced graphene oxide nanomaterials. Analytical Methods, 2016, 8, 401-408.	2.7	80
72	A nanocomposite prepared from platinum particles, polyaniline and a Ti <sub>3</sub> C <sub>2</sub> MXene for amperometric sensing of hydrogen peroxide and lactate. Mikrochimica Acta, 2019, 186, 752.	5.0	79

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73	Occurrences and removal of pharmaceutical and personal care products from aquatic systems using advanced treatment- A review. <i>Environmental Research</i> , 2022, 204, 112298.	7.5	79
74	Selective QCM sensor based on atrazine imprinted polymer: Its application to wastewater sample. <i>Sensors and Actuators B: Chemical</i> , 2015, 218, 215-221.	7.8	78
75	Silver, gold, and silver@gold nanoparticle-anchored L-cysteine-functionalized reduced graphene oxide as electrocatalyst for methanol oxidation. <i>Ionics</i> , 2015, 21, 2285-2293.	2.4	78
76	WS <sub>2</sub> and CaTiO <sub>3</sub> Nanorods Acting as Effective Charge Separators on g-C <sub>3</sub> N <sub>4</sub> to Boost Visible-Light Activated Hydrogen Production from Seawater. <i>ChemSusChem</i> , 2018, 11, 4077-4085.	6.8	77
77	3D Polyoxometalate-Functionalized Graphene Quantum Dots with Mono-Metallic and Bi-Metallic Nanoparticles for Application in Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1237-F1244.	2.9	76
78	Molecular imprinting polymer with polyoxometalate/carbon nitride nanotubes for electrochemical recognition of bilirubin. <i>Electrochimica Acta</i> , 2017, 246, 135-140.	5.2	76
79	Enhanced surface plasmon resonance (SPR) signals based on immobilization of core-shell nanoparticles incorporated boron nitride nanosheets: Development of molecularly imprinted SPR nanosensor for anticancer drug, etoposide. <i>Biosensors and Bioelectronics</i> , 2019, 130, 293-298.	10.1	76
80	Revealing Ni-based layered double hydroxides as high-efficiency electrocatalysts for the oxygen evolution reaction: a DFT study. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23091-23097.	10.3	75
81	A novel molecular imprinted nanosensor based quartz crystal microbalance for determination of kaempferol. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 79-85.	7.8	74
82	Determination of amikacin in human plasma by molecular imprinted SPR nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 70-76.	7.8	74
83	Phenylethanolamine A (PEA) Imprinted Polymer on Carbon Nitride Nanotubes/Graphene Quantum Dots/Core-Shell Nanoparticle Composite for Electrochemical PEA Detection in Urine Sample. <i>Journal of the Electrochemical Society</i> , 2018, 165, H1-H9.	2.9	74
84	Facile Electrodeposition of Ni-Cu-P Dendrite Nanotube Films with Enhanced Hydrogen Evolution Reaction Activity and Durability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35224-35233.	8.0	74
85	A novel and ultrasensitive sandwich-type electrochemical immunosensor based on delaminated MXene@AuNPs as signal amplification for prostate specific antigen (PSA) detection and immunosensor validation. <i>Talanta</i> , 2020, 220, 121403.	5.5	74
86	A novel sandwich-type SERS immunosensor for selective and sensitive carcinoembryonic antigen (CEA) detection. <i>Analytica Chimica Acta</i> , 2020, 1139, 100-110.	5.4	73
87	Palladium nanoparticles functionalized graphene quantum dots with molecularly imprinted polymer for electrochemical analysis of citrinin. <i>Journal of Molecular Liquids</i> , 2017, 243, 677-681.	4.9	72
88	Two Birds with One Stone: Boosting Zinc-Ion Insertion/Extraction Kinetics and Suppressing Vanadium Dissolution of V <sub>2</sub> O <sub>5</sub> via La <sup>3+</sup> Incorporation Enable Advanced Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38416-38424.	8.0	70
89	Electrochemical studies on graphene oxide-supported metallic and bimetallic nanoparticles for fuel cell applications. <i>Journal of Molecular Liquids</i> , 2014, 191, 172-176.	4.9	69
90	A novel electrochemical lung cancer biomarker cytokeratin 19 fragment antigen 21-1 immunosensor based on Si <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> incorporated MWCNTs and core-shell type magnetic nanoparticles. <i>Nanoscale</i> , 2021, 13, 4660-4669.	5.6	69



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91	Amperometric galectin-3 immunosensor-based gold nanoparticle-functionalized graphitic carbon nitride nanosheets and core-shell Ti-MOF@COFs composites. <i>Nanoscale</i> , 2020, 12, 19824-19832.	5.6	67
92	Electrochemically modified sulfisoxazole nanofilm on glassy carbon for determination of cadmium(II) in water samples. <i>Electrochimica Acta</i> , 2013, 105, 149-156.	5.2	66
93	A Molecular Imprinted Voltammetric Sensor Based on Carbon Nitride Nanotubes: Application to Determination of Melamine. <i>Journal of the Electrochemical Society</i> , 2016, 163, B588-B593.	2.9	65
94	Molecularly imprinted QCM sensor based on delaminated MXene for chlorpyrifos detection and QCM sensor validation. <i>New Journal of Chemistry</i> , 2020, 44, 6524-6532.	2.8	64
95	Fe@Ag nanoparticles decorated reduced graphene oxide as ultrahigh capacity anode material for lithium-ion battery. <i>Ionics</i> , 2015, 21, 3185-3192.	2.4	61
96	Electrochemical neuron-specific enolase (NSE) immunosensor based on CoFe <sub>2</sub> O <sub>4</sub> @Ag nanocomposite and AuNPs@MoS <sub>2</sub> /rGO. <i>Analytica Chimica Acta</i> , 2022, 1200, 339609.	5.4	61
97	Electrochemical detection of amyloid- $\beta^2$ protein by delaminated titanium carbide MXene/multi-walled carbon nanotubes composite with molecularly imprinted polymer. <i>Materials Today Communications</i> , 2020, 23, 101097.	1.9	60
98	Non-invasive electrochemical immunosensor for sweat cortisol based on L-cys/AuNPs/ MXene modified thread electrode. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114039.	10.1	60
99	Equilibrium, thermodynamic and kinetic studies for the adsorption of lead (II) and nickel (II) onto clay mixture containing boron impurity. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1751-1757.	5.8	58
100	Novel voltammetric tumor necrosis factor-alpha (TNF- $\alpha$ ) immunosensor based on gold nanoparticles involved in thiol-functionalized multi-walled carbon nanotubes and bimetallic Ni/Cu-MOFs. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2481-2492.	3.7	57
101	Nanosized Fe <sub>3</sub> O <sub>4</sub> incorporated on a TiO <sub>2</sub> surface for the enhanced photocatalytic degradation of organic pollutants. <i>Journal of Molecular Liquids</i> , 2019, 287, 110967.	4.9	56
102	Removal of basic and acid dyes from aqueous solutions by a waste containing boron impurity. <i>Desalination</i> , 2009, 249, 109-115.	8.2	55
103	Electrochemical sensing of ractopamine by carbon nitride nanotubes/ionic liquid nanohybrid in presence of other $\beta^2$ -agonists. <i>Journal of Molecular Liquids</i> , 2018, 254, 8-11.	4.9	53
104	A novel QCM immunosensor development based on gold nanoparticles functionalized sulfur-doped graphene quantum dot and h-ZnS-CdS NC for Interleukin-6 detection. <i>Analytica Chimica Acta</i> , 2021, 1148, 338202.	5.4	53
105	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
106	A novel electrochemical kidney injury molecule-1 (KIM-1) immunosensor based covalent organic frameworks-gold nanoparticles composite and porous NiCo <sub>2</sub> S <sub>4</sub> @CeO <sub>2</sub> microspheres: The monitoring of acute kidney injury. <i>Applied Surface Science</i> , 2022, 578, 152093.	6.1	52
107	Thermodynamic, Equilibrium and Kinetic Study of the Biosorption of Basic Blue 41 using <i>Bacillus macerans</i> . <i>Engineering in Life Sciences</i> , 2008, 8, 499-506.	3.6	50
108	Enhancement of Hydrogen Evolution Reaction Performance of Graphitic Carbon Nitride with Incorporated Nickel Boride. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16198-16204.	6.7	50

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109	Corrosion Resistance of Graphene oxide/Silver Coatings on Ni–Ti alloy and Expression of IL-6 and IL-8 in Human Oral Fibroblasts. <i>Scientific Reports</i> , 2020, 10, 3247.	3.3	50
110	Synthesis of hierarchical structured rare earth metal–doped Co <sub>3</sub> O <sub>4</sub> by polymer combustion method for high performance electrochemical supercapacitor electrode materials. <i>Ionics</i> , 2020, 26, 2051-2061.	2.4	47
111	Removal of acid blue 062 on aqueous solution using calcinated colemanite ore waste. <i>Journal of Hazardous Materials</i> , 2007, 146, 171-179.	12.4	46
112	Reduced graphene oxide based a novel polymer inclusion membrane: Transport studies of Cr(VI). <i>Journal of Molecular Liquids</i> , 2016, 219, 1124-1130.	4.9	45
113	A Methyl Parathion Recognition Method Based on Carbon Nitride Incorporated Hexagonal Boron Nitride Nanosheets Composite Including Molecularly Imprinted Polymer. <i>Journal of the Electrochemical Society</i> , 2019, 166, H495-H501.	2.9	44
114	Sensitive sandwich-type electrochemical SARS-CoV-2 nucleocapsid protein immunosensor. <i>Mikrochimica Acta</i> , 2021, 188, 425.	5.0	44
115	A molecularly imprinted electrochemical biosensor based on hierarchical Ti <sub>2</sub> Nb <sub>10</sub> O <sub>29</sub> (TNO) for glucose detection. <i>Mikrochimica Acta</i> , 2022, 189, 24.	5.0	44
116	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
117	First principle study of elastic and thermodynamic properties of FeB <sub>4</sub> under high pressure. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	42
118	A sensitive voltammetric sensor for determination of Cd(II) in human plasma. <i>Journal of Molecular Liquids</i> , 2014, 197, 58-64.	4.9	41
119	Fabrication of Pt/Pd Nanoparticles/Polyoxometalate/Ionic Liquid Nanohybrid for Electrocatalytic Oxidation of Methanol. <i>Journal of the Electrochemical Society</i> , 2018, 165, F338-F341.	2.9	41
120	Synergistic corrosion inhibition effect of 1-ethyl-1-methylpyrrolidinium tetrafluoroborate and iodide ions for low carbon steel in HCl solution. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 2383-2403.	2.6	40
121	Adsorptive properties of molasses modified boron enrichment waste based nanoclay for removal of basic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 244-249.	5.8	40
122	Gold Nanoparticles/Two-Dimensional (2D) Hexagonal Boron Nitride Nanosheets Including Diethylstilbestrol Imprinted Polymer: Electrochemical Detection in Urine Samples and Validation. <i>Journal of the Electrochemical Society</i> , 2018, 165, H897-H902.	2.9	40
123	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
124	Amino acid functionalized magnetic nanoparticles for removal of Ni(II) from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 148-160.	5.3	39
125	Synthesis of CdO nanoparticles using direct chemical precipitation method: Fabrication of novel voltammetric sensor for square wave voltammetry determination of chlorpromazine in pharmaceutical samples. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 347-353.	1.6	39
126	NiMn-Layered Double Hydroxides Chemically Anchored on Ti <sub>3</sub> C <sub>2</sub> MXene for Superior Lithium Ion Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 11119-11130.	5.1	38



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127	Microplastics in the environment: Recent developments in characteristic, occurrence, identification and ecological risk. <i>Chemosphere</i> , 2022, 298, 134161.	8.2	38
128	Oxytocin imprinted polymer based surface plasmon resonance sensor and its application to milk sample. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 842-848.	7.8	37
129	Facile and green fabrication of silver nanoparticles on a polyoxometalate for Li-ion battery. <i>Ionics</i> , 2015, 21, 2193-2199.	2.4	37
130	Heterostructures of mesoporous TiO <sub>2</sub> and SnO <sub>2</sub> nanocatalyst for improved electrochemical oxidation ability of vitamin B6 in pharmaceutical tablets. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 45-53.	9.4	35
131	Efficient Direct Methanol Fuel Cell Based on Graphene Quantum Dots/Multi-walled Carbon Nanotubes Composite. <i>Electroanalysis</i> , 2020, 32, 1977-1982.	2.9	35
132	Biofilm inhibition and bactericidal activity of NiTi alloy coated with graphene oxide/silver nanoparticles via electrophoretic deposition. <i>Scientific Reports</i> , 2021, 11, 14008.	3.3	35
133	Carbohydrate antigen 19-9 electrochemical immunosensor based on 1D-MoS <sub>2</sub> nanorods/LiNb <sub>3</sub> O <sub>8</sub> and polyoxometalate-incorporated gold nanoparticles. <i>Microchemical Journal</i> , 2021, 170, 106643.	4.5	34
134	Determination of rutin by CoFe <sub>2</sub> O <sub>4</sub> nanoparticles ionic liquid nanocomposite as a voltammetric sensor. <i>Journal of Molecular Liquids</i> , 2017, 246, 350-353.	4.9	33
135	Electrochemical detection of atrazine in wastewater samples by copper oxide (CuO) nanoparticles ionic liquid modified electrode. <i>Journal of Molecular Liquids</i> , 2017, 248, 360-363.	4.9	33
136	Ni-Co Double Hydroxide Grown on Graphene Oxide for Enhancing Lithium Ion Storage. <i>Energy &amp; Fuels</i> , 2020, 34, 13032-13037.	5.1	32
137	How Prussian Blue Analogues Can Be Stable in Concentrated Aqueous Electrolytes. <i>ACS Energy Letters</i> , 2022, 7, 1672-1678.	17.4	32
138	Fabrication of bimetallic Pt/Pd nanoparticles on 2-thiolbenzimidazole functionalized reduced graphene oxide for methanol oxidation. <i>Ionics</i> , 2016, 22, 593-600.	2.4	31
139	Eco-Friendly Conductive Cotton-Based Textile Electrodes Using Silver- and Carbon-Coated Fabrics for Advanced Flexible Supercapacitors. <i>Energy &amp; Fuels</i> , 2020, 34, 8977-8986.	5.1	30
140	Graphene Oxide/Silver Nanoparticle Coating Produced by Electrophoretic Deposition Improved the Mechanical and Tribological Properties of NiTi Alloy for Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3804-3810.	0.9	29
141	Heavy metal resistances and biosorptive behaviors of <i>Paenibacillus polymyxa</i> : Batch and column studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 863-869.	5.8	27
142	Fabrication of novel electrochemical sensor for determination of vitamin C in the presence of vitamin B9 in food and pharmaceutical samples. <i>Journal of Molecular Liquids</i> , 2016, 221, 666-672.	4.9	27
143	Facile synthesis of a ZnO-BiOI nano-heterojunction with excellent visible-light photocatalytic activity. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 789-800.	2.8	27
144	TiO <sub>2</sub> /MXene-PVA/GO hydrogel-based electrochemical sensor for neurological disorder screening via urinary norepinephrine detection. <i>Mikrochimica Acta</i> , 2021, 188, 387.	5.0	27

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145	Electrochemical Tau Protein Immunosensor Based on MnS/GO/PANI and Magnetiteâ€incorporated Gold Nanoparticles. <i>Electroanalysis</i> , 2022, 34, 1519-1528.	2.9	26
146	Co-electrodeposition of hard Ni-W/diamond nanocomposite coatings. <i>Scientific Reports</i> , 2016, 6, 22285.	3.3	25
147	Spatial Separation of Charge Carriers via Heterogeneous Structural Defects in Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 4428-4436.	5.0	24
148	Electrochemical Î±-fetoprotein immunosensor based on Fe <sub>3</sub> O <sub>4</sub> NPs@covalent organic framework decorated gold nanoparticles and magnetic nanoparticles including SiO <sub>2</sub> @TiO <sub>2</sub> . <i>Mikrochimica Acta</i> , 2022, 189, .	5.0	24
149	Biosynthesis of silver nanoparticles using chitosan immobilized <i>Bacillus cereus</i> : Nanocatalytic studies. <i>Journal of Molecular Liquids</i> , 2013, 188, 81-88.	4.9	23
150	Ni <sub>3</sub> S <sub>2</sub> Nanoparticles Anchored on d-Ti <sub>3</sub> C <sub>2</sub> Nanosheets with Enhanced Sodium Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 2593-2599.	5.1	22
151	A self-sacrifice template strategy to synthesize Co-LDH/MXene for lithium-ion batteries. <i>Chemical Communications</i> , 2021, 57, 11378-11381.	4.1	22
152	Boosting Zn <sup>2+</sup> Diffusion via Tunnel-Type Hydrogen Vanadium Bronze for High-Performance Zinc Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7909-7916.	8.0	21
153	4-Mercaptophenylboronic acid: Conformation, FT-IR, Raman, OH stretching and theoretical studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 144, 131-138.	3.9	19
154	Electrochemical Sensor Based on Au@nitrogen-Doped Carbon Quantum Dots@Ag Core-Shell Composite Including Molecular Imprinted Polymer for Metobromuron Recognition. <i>Journal of the Electrochemical Society</i> , 2019, 166, H691-H697.	2.9	19
155	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
156	Pressure-induced zigzag phosphorus chain and superconductivity in boron monophosphide. <i>Scientific Reports</i> , 2015, 5, 8761.	3.3	16
157	Modification Strategies of Layered Double Hydroxides for Superior Supercapacitors. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	16
158	Elastic, magnetic and electronic properties of iridium phosphide Ir <sub>2</sub> P. <i>Scientific Reports</i> , 2016, 6, 21787.	3.3	15
159	Deformationâ€induced bonding evolution of iron tetraboride and its electronic origin. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 1022-1025.	2.4	13
160	Theoretical prediction of structural stability, electronic and elastic properties of ZrSi <sub>2</sub> under pressure. <i>RSC Advances</i> , 2015, 5, 36779-36786.	3.6	12
161	Biosorption study of anionic dyes from aqueous solutions using <i>Bacillus amyloliquefaciens</i> . <i>Engineering in Life Sciences</i> , 2010, 10, 233-241.	3.6	11
162	The high concentration and uniform distribution of diamond particles in Ni-diamond composite coatings by sediment co-deposition. <i>Surface and Interface Analysis</i> , 2015, 47, 331-339.	1.8	11

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163	Effect of Ag <sup>+</sup> and PO <sub>4</sub> <sup>3-</sup> ratios on the microstructure and photocatalytic activity of Ag <sub>3</sub> PO <sub>4</sub> . Functional Materials Letters, 2016, 09, 1650063.	1.2	11
164	Rational design and synthesis of SiC/TiC@SiO <sub>2</sub> /TiO <sub>2</sub> porous core-shell nanostructure with excellent Li-ion storage performance. Chemical Communications, 2018, 54, 12622-12625.	4.1	11
165	Theoretical Insights into the NH <sub>3</sub> Decomposition Mechanism on the Cu- and Pt- Embedded Graphene Surfaces: A DFT Approach. ECS Journal of Solid State Science and Technology, 2021, 10, 101008.	1.8	11
166	Anisotropy in elasticity and thermodynamic properties of zirconium tetraboride under high pressure. RSC Advances, 2015, 5, 77399-77406.	3.6	10
167	Crystal structures and formation mechanisms of boron-rich tungsten borides. Physical Review B, 2021, 104, .	3.2	10
168	Surface Plasmon Resonance Biosensors: Sensor Response Modeling. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1248-1251.	0.4	8
169	Structural, magnetic and electron transfer effect of Cr additive on Fe <sub>65</sub> Co <sub>35</sub> nanopowder fabricated mechanical alloying. Powder Technology, 2015, 279, 262-268.	4.2	8
170	Architecting Nb <sub>2</sub> TiO <sub>2</sub> x / (Ti <sub>0.9</sub> Nb <sub>0.1</sub> ) <sub>3</sub> C <sub>2</sub> MXene Nanohybrid Anode for High-Performance Lithium-Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	3.7	8
171	SiC x /TiC x Nanostructured Material from Ti <sub>3</sub> SiC <sub>2</sub> for High Rate Performance of Lithium Storage. ChemistrySelect, 2019, 4, 7766-7772.	1.5	7
172	Superiority of Modified Polymeric Membrane with Nanomaterial on Temperature and Mechanical Stability and Application in Industrial Waste Water. ECS Journal of Solid State Science and Technology, 2020, 9, 061019.	1.8	7
173	<i>In situ</i> high pressure synthesis of cBN-based composites. Functional Materials Letters, 2014, 07, 1450040.	1.2	6
174	Effect of DMA-MMA diblock copolymer on the properties of Portland and composite cement. Cement and Concrete Composites, 2008, 30, 334-346.	10.7	4
175	Mechanical-assisted preparation and photocatalytic properties of almost-visible light-driven ZnO/ZnFe <sub>2</sub> O <sub>4</sub> nanocomposites. Materials Research Society Symposia Proceedings, 2014, 1641, 1.	0.1	3
176	Influence of Co <sup>2+</sup> Ions on the Microstructure and Mechanical Properties of Ni-W/Diamond Nano-Composite Coatings. Journal of Nanoscience and Nanotechnology, 2019, 19, 4083-4089.	0.9	3
177	High-Performance and Binder-Free Anodized ZrTiAlV Alloy Anode Material for Lithium Ion Microbatteries. ACS Applied Energy Materials, 2020, 3, 11326-11332.	5.1	3
178	Surface characterization of dinitrophenyl-diaminophenyl nanoplatfrom on glassy carbon. Journal of Molecular Liquids, 2013, 187, 49-53.	4.9	2