

Elsayed M Zahran

List of Publications by Year in descending order

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37
papers

1,121
citations

430874

18
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

1625
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-dependent photocatalytic activity of carbon dots with surface-state determined photoluminescence. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 157-166.	20.2	165
2	Ionophore-based ion-selective potentiometric and optical sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 328-341.	3.7	134
3	Light-Activated Tandem Catalysis Driven by Multicomponent Nanomaterials. <i>Journal of the American Chemical Society</i> , 2014, 136, 32-35.	13.7	94
4	Pd-decorated m-BiVO ₄ /BiOBr ternary composite with dual heterojunction for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 529-534.	10.3	72
5	Triazolophanes: A New Class of Halide-Selective Ionophores for Potentiometric Sensors. <i>Analytical Chemistry</i> , 2010, 82, 368-375.	6.5	70
6	Polymeric plasticizer extends the lifetime of PVC-membrane ion-selective electrodes. <i>Analyst, The</i> , 2014, 139, 757-763.	3.5	48
7	Ion-Selective Electrodes Based on a Pyridyl-Containing Triazolophane: Altering Halide Selectivity by Combining Dipole-Promoted Cooperativity with Hydrogen Bonding. <i>Analytical Chemistry</i> , 2011, 83, 3455-3461.	6.5	45
8	Metal oxide semiconductor nanomaterial for reductive debromination: Visible light degradation of polybrominated diphenyl ethers by Cu ₂ O@Pd nanostructures. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 147-154.	20.2	42
9	Preorganized composite material of polyaniline-palladium nanoparticles with high electrocatalytic activity to methanol and ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6745-6753.	7.1	36
10	Direct Synthetic Control over the Size, Composition, and Photocatalytic Activity of Octahedral Copper Oxide Materials: Correlation Between Surface Structure and Catalytic Functionality. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13238-13250.	8.0	34
11	Thermal, mechanical and conductive properties of imidazolium-containing thiol-ene poly(ionic liquid) networks. <i>Polymer</i> , 2016, 100, 1-9.	3.8	34
12	Cyanostar: C-H Hydrogen Bonding Neutral Carrier Scaffold for Anion-Selective Sensors. <i>Analytical Chemistry</i> , 2018, 90, 1925-1933.	6.5	32
13	Reactivity of Pd/Fe bimetallic nanotubes in dechlorination of coplanar polychlorinated biphenyls. <i>Chemosphere</i> , 2013, 91, 165-171.	8.2	31
14	Novel solid-state cadmium ion-selective electrodes based on its tetraiodo- and tetrabromo-ion pairs with cetylpyridinium. <i>Journal of Electroanalytical Chemistry</i> , 2005, 576, 205-213.	3.8	29
15	Halide Effects in BiVO ₄ /BiOX Heterostructures Decorated with Pd Nanoparticles for Photocatalytic Degradation of Rhodamine B as a Model Organic Pollutant. <i>ACS Applied Nano Materials</i> , 2021, 4, 3262-3272.	5.0	28
16	Development of reactive Pd/Fe bimetallic nanotubes for dechlorination reactions. <i>Journal of Materials Chemistry</i> , 2011, 21, 10454.	6.7	24
17	A Novel Membrane Sensor for Histamine H1-Receptor Antagonist "Fexofenadine". <i>Analytical Sciences</i> , 2004, 20, 1137-1142.	1.6	23
18	Size-Controlled SrTiO ₃ Nanoparticles Photodecorated with Pd Cocatalysts for Photocatalytic Organic Dye Degradation. <i>ACS Applied Nano Materials</i> , 2020, 3, 4904-4912.	5.0	23

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19	Conjugation of Carbon Dots with β -Galactosidase Enzyme: Surface Chemistry and Use in Biosensing. <i>Molecules</i> , 2019, 24, 3275.	3.8	19
20	Covalently Crosslinked 1,2,3-Triazolium-Containing Polyester Networks: Thermal, Mechanical, and Conductive Properties. <i>ACS Omega</i> , 2018, 3, 13442-13453.	3.5	18
21	Can Temperature Be Used To Tune the Selectivity of Membrane Ion-Selective Electrodes?. <i>Analytical Chemistry</i> , 2010, 82, 3622-3628.	6.5	16
22	Hierarchical Core-Shell ACOF-1@BiOBr as an Efficient Photocatalyst for the Degradation of Emerging Organic Contaminants. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2503-2516.	3.1	14
23	Converting Light Energy to Chemical Energy: A New Catalytic Approach for Sustainable Environmental Remediation. <i>ACS Omega</i> , 2016, 1, 41-51.	3.5	12
24	Self-healing behaviour of furan-maleimide poly(ionic liquid) covalent adaptable networks. <i>Polymer Chemistry</i> , 2020, 11, 5321-5326.	3.9	12
25	Amino Acids for the Sustainable Production of Cu ₂ O Materials: Effects on Morphology and Photocatalytic Reactivity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17055-17064.	6.7	10
26	Cu ₂ S@Bi ₂ S ₃ Double-Shelled Hollow Cages as a Nanocatalyst with Substantial Activity in Peroxymonosulfate Activation for Atrazine Degradation. <i>ACS Applied Nano Materials</i> , 2021, 4, 12222-12234.	5.0	8
27	Anion-Selective Electrodes Based On a CH-Hydrogen Bonding Bis-macrocyclic Ionophore with a Clamshell Architecture. <i>Analytical Chemistry</i> , 2021, 93, 5412-5419.	6.5	7
28	Palladium nanoparticle-decorated iron nanotubes hosted in a polycarbonate porous membrane: development, characterization, and performance as electrocatalysts of ascorbic acid. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1637-1642.	3.7	6
29	Miniaturization overcomes macro sample analysis limitations: Salicylate-selective polystyrene nanoparticle-modified optical sensor. <i>Talanta</i> , 2019, 196, 436-441.	5.5	4
30	Design of Pd-Decorated SrTiO ₃ /BiOBr Heterojunction Materials for Enhanced Visible-Light-Based Photocatalytic Reactivity. <i>Langmuir</i> , 2021, 37, 11986-11995.	3.5	4
31	Reagentless electrochemical biosensors through incorporation of unnatural amino acids on the protein structure. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113861.	10.1	4
32	Mechanistic analysis identifying reaction pathways for rapid reductive photodebromination of polybrominated diphenyl ethers using BiVO ₄ /BiOBr/Pd heterojunction nanocomposite photocatalyst. <i>Environmental Science: Nano</i> , 2022, 9, 1106-1115.	4.3	4
33	Cu ₂ O nanoparticle-catalyzed synthesis of diaryl tetrazolones and investigation of their solid-state properties. <i>CrystEngComm</i> , 2021, 23, 3220-3229.	2.6	3
34	Persistence of aerially-sprayed naled in coastal sediments. <i>Science of the Total Environment</i> , 2021, 794, 148701.	8.0	3
35	Correlating the potentiometric selectivity of cyclosporin-based electrodes with binding patterns obtained from electrospray ionization-mass spectrometry. <i>Analyst</i> , 2017, 142, 3241-3249.	3.5	2
36	Persistence of aerially applied mosquito-pesticide, Naled, in fresh and marine waters. <i>Science of the Total Environment</i> , 2020, 725, 138391.	8.0	2

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37	Potential Impacts of PCBs on Sediment Microbiomes in a Tropical Marine Environment. Journal of Marine Science and Engineering, 2016, 4, 13.	2.6	1