Farid A Harraz

List of Publications by Year
in descending order

162 papers	5,835 citations	66343 42 h-index	102487 66 g-index
162 all docs	162 docs citations	162 times ranked	5773 citing authors

#	Article	IF	Citations
1	Porous silicon chemical sensors and biosensors: A review. Sensors and Actuators B: Chemical, 2014, 202, 897-912.	7.8	269
2	Hydrothermal synthesis of novel heterostructured Fe2O3/Bi2S3 nanorods with enhanced photocatalytic activity under visible light. Applied Catalysis B: Environmental, 2017, 213, 18-27.	20.2	203
3	Palladium nanoparticles stabilized by polyethylene glycol: Efficient, recyclable catalyst for hydrogenation of styrene and nitrobenzene. Journal of Catalysis, 2012, 286, 184-192.	6.2	181
4	Structure and magnetic properties of nanocrystalline cobalt ferrite powders synthesized using organic acid precursor method. Journal of Magnetism and Magnetic Materials, 2010, 322, 2058-2064.	2.3	180
5	Synthesis of mesoporous Ag/ZnO nanocrystals with enhanced photocatalytic activity. Catalysis Today, 2015, 252, 20-26.	4.4	123
6	Visible-light photocatalytic activity of gold nanoparticles supported on template-synthesized mesoporous titania for the decontamination of the chemical warfare agent Soman. Applied Catalysis B: Environmental, 2010, 99, 191-197.	20.2	110
7	Synthesis of highly dispersed silver doped g-C 3 N 4 nanocomposites with enhanced visible-light photocatalytic activity. Materials and Design, 2016, 98, 223-230.	7.0	108
8	SnO2 doped ZnO nanostructures for highly efficient photocatalyst. Journal of Molecular Catalysis A, 2015, 397, 19-25.	4.8	106
9	Polythiophene/mesoporous SrTiO 3 nanocomposites with enhanced photocatalytic activity under visible light. Separation and Purification Technology, 2018, 190, 33-44.	7.9	103
10	Surface-enhanced Raman scattering (SERS)-active substrates from silver plated-porous silicon for detection of crystal violet. Applied Surface Science, 2015, 331, 241-247.	6.1	98
11	A green chemical route for synthesis of graphene supported palladium nanoparticles: A highly active and recyclable catalyst for reduction of nitrobenzene. Applied Catalysis A: General, 2015, 503, 176-185.	4.3	96
12	Highly sensitive amperometric hydrazine sensor based on novel Î±-Fe2O3/crosslinked polyaniline nanocomposite modified glassy carbon electrode. Sensors and Actuators B: Chemical, 2016, 234, 573-582.	7.8	96
13	Metal Deposition onto a Porous Silicon Layer by Immersion Plating from Aqueous and Nonaqueous Solutions. Journal of the Electrochemical Society, 2002, 149, C456.	2.9	92
14	Hydrothermal synthesis of size-controllable Yttrium Orthovanadate (YVO4) nanoparticles and its application in photocatalytic degradation of direct blue dye. Journal of Alloys and Compounds, 2012, 532, 55-60.	5.5	89
15	Magnetic nanocomposite based on titaniaâ€“silica/cobalt ferrite for photocatalytic degradation of methylene blue dye. Ceramics International, 2014, 40, 375-384.	4.8	88
16	A sensitive and selective amperometric hydrazine sensor based on mesoporous Au/ZnO nanocomposites. Materials and Design, 2016, 109, 530-538.	7.0	86
17	Rapid synthesis of titaniaâ€“silica nanoparticles photocatalyst by a modified solâ€“gel method for cyanide degradation and heavy metals removal. Journal of Alloys and Compounds, 2013, 551, 1-7.	5.5	83
18	Electrochemical stabilization of porous silicon multilayers for sensing various chemical compounds. Journal of Applied Physics, 2006, 100, 083520.	2.5	77

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19	Au nanoparticles-doped g-C3N4 nanocomposites for enhanced photocatalytic performance under visible light illumination. Ceramics International, 2020, 46, 22090-22101.	4.8	77
20	CuO nanobelts synthesized by a template-free hydrothermal approach with optical and magnetic characteristics. Ceramics International, 2014, 40, 2127-2133.	4.8	70
21	Composition and phase control of Ni/NiO nanoparticles for photocatalytic degradation of EDTA. Journal of Alloys and Compounds, 2010, 508, 133-140.	5.5	68
22	Controlled synthesis of bismuth sulfide nanorods by hydrothermal method and their photocatalytic activity. Materials and Design, 2016, 102, 202-212.	7.0	67
23	Conducting polythiophene/Î±-Fe2O3 nanocomposite for efficient methanol electrochemical sensor. Applied Surface Science, 2020, 508, 145226.	6.1	67
24	Synthesis of mesoporous sulfur-doped Ta2O5 nanocomposites and their photocatalytic activities. Journal of Colloid and Interface Science, 2016, 471, 145-154.	9.4	64
25	Polythiophene/ZnO nanocomposite-modified glassy carbon electrode as efficient electrochemical hydrazine sensor. Materials Chemistry and Physics, 2018, 214, 126-134.	4.0	62
26	Novel mesoporous NiO/TiO2 nanocomposites with enhanced photocatalytic activity under visible light illumination. Ceramics International, 2018, 44, 7047-7056.	4.8	60
27	Adsorptive removal of iron and manganese ions from aqueous solutions with microporous chitosan/polyethylene glycol blend membrane. Journal of Environmental Sciences, 2012, 24, 1425-1432.	6.1	59
28	Novel SWCNTs-mesoporous silicon nanocomposite as efficient non-enzymatic glucose biosensor. Applied Surface Science, 2021, 552, 149477.	6.1	56
29	Novel Î±-Fe2O3/polypyrrole nanocomposite with enhanced photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 299, 18-24.	3.9	55
30	Hybrid nanostructure of polypyrrole and porous silicon prepared by galvanostatic technique. Electrochimica Acta, 2008, 53, 3734-3740.	5.2	54
31	Review on perovskite silicon tandem solar cells: Status and prospects 2T, 3T and 4T for real world conditions. Materials and Design, 2021, 211, 110138.	7.0	53
32	TiO2/reduced graphene oxide nanocomposite as efficient ascorbic acid amperometric sensor. Journal of Electroanalytical Chemistry, 2019, 832, 225-232.	3.8	52
33	Different Behavior in Immersion Plating of Nickel on Porous Silicon from Acidic and Alkaline Fluoride Media. Journal of the Electrochemical Society, 2003, 150, C277.	2.9	47
34	Electrochemical Polymerization of Pyrrole into Nanostructured p-Type Porous Silicon. Journal of the Electrochemical Society, 2006, 153, C349.	2.9	47
35	Cylindrical pore arrays in silicon with intermediate nano-sizes: A template for nanofabrication and multilayer applications. Electrochimica Acta, 2008, 53, 6444-6451.	5.2	47
36	Magnetic behavior of cobalt ferrite nanowires prepared by template-assisted technique. Materials Chemistry and Physics, 2010, 123, 254-259.	4.0	46

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37	A capacitive chemical sensor based on porous silicon for detection of polar and non-polar organic solvents. Applied Surface Science, 2014, 307, 704-711.	6.1	46
38	Fabrication of highly efficient TiO2/C3N4 visible light driven photocatalysts with enhanced photocatalytic activity. Journal of Molecular Structure, 2018, 1173, 428-438.	3.6	46
39	Catalytic performance of nanostructured iron oxides synthesized by thermal decomposition technique. Journal of Alloys and Compounds, 2009, 487, 716-723.	5.5	45
40	Highest accumulated microalgal lipids (polar and non-polar) for biodiesel production with advanced wastewater treatment: Role of lipidomics. Bioresource Technology, 2020, 298, 122299.	9.6	44
41	Fine-tuning in size and surface morphology of rod-shaped polypyrrole using porous silicon as template. Electrochemistry Communications, 2008, 10, 56-60.	4.7	43
42	A novel HCV electrochemical biosensor based on a polyaniline@Ni-MOF nanocomposite. Dalton Transactions, 2020, 49, 8918-8926.	3.3	43
43	rGO/ZnO/Nafion nanocomposite as highly sensitive and selective amperometric sensor for detecting nitrite ions (NO2â^'). Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 345-356.	5.3	43
44	A novel Ag/PANI/ZnTiO3 ternary nanocomposite as a highly efficient visible-light-driven photocatalyst. Separation and Purification Technology, 2021, 256, 117847.	7.9	43
45	Immersion plating of nickel onto a porous silicon layer from fluoride solutions. Physica Status Solidi A, 2003, 197, 51-56.	1.7	41
46	Au nanoparticles decorated polypyrrole-carbon black/g-C3N4 nanocomposite as ultrafast and efficient visible light photocatalyst. Chemosphere, 2022, 287, 131984.	8.2	41
47	Random Macropore Formation in p-Type Silicon in HF-Containing Organic Solutions. Journal of the Electrochemical Society, 2005, 152, C213.	2.9	40
48	Highly sensitive and selective non-enzymatic uric acid electrochemical sensor based on novel polypyrrole-carbon black-Co3O4 nanocomposite. Advanced Composites and Hybrid Materials, 2022, 5, 920-933.	21.1	39
49	Effect of chloride ions on immersion plating of copper onto porous silicon from a methanol solution. Electrochimica Acta, 2002, 47, 1249-1257.	5.2	38
50	Polythiophene doped ZnO nanostructures synthesized by modified sol-gel and oxidative polymerization for efficient photodegradation of methylene blue and gemifloxacin antibiotic. Materials Today Communications, 2020, 24, 101048.	1.9	38
51	A Highly Efficient Nonenzymatic Hydrogen Peroxide Electrochemical Sensor Using Mesoporous Carbon Doped ZnO Nanocomposite. Journal of the Electrochemical Society, 2021, 168, 027512.	2.9	38
52	Direct Analysis of Rare Circulating Tumor Cells in Whole Blood Based on Their Controlled Capture and Release on Electrode Surface. Analytical Chemistry, 2020, 92, 13478-13484.	6.5	37
53	Electrochemical Deposition of Cu Metalâ€"Organic Framework Films for the Dual Analysis of Pathogens. Analytical Chemistry, 2021, 93, 8994-9001.	6.5	37
54	Microrod and Microtube Formation by Electrodeposition of Metal into Ordered Macropores Prepared in p-Type Silicon. Journal of the Electrochemical Society, 2006, 153, C218.	2.9	36

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55	Electrochemical Formation of Porous Silicon with Medium-Sized Pores. Electrochemistry, 2007, 75, 270-272.	1.4	36
56	DNA Hydrogel-Based Three-Dimensional Electron Transporter and Its Application in Electrochemical Biosensing. ACS Applied Materials & Interfaces, 2020, 12, 36851-36859.	8.0	36
57	Sensor array for rapid pathogens identification fabricated with peptide-conjugated 2D metal-organic framework nanosheets. Chemical Engineering Journal, 2021, 405, 126707.	12.7	36
58	World eutrophic pollution of lake and river: Biotreatment potential and future perspectives. Environmental Technology and Innovation, 2021, 23, 101604.	6.1	36
59	Porous silicon-mesoporous carbon nanocomposite based electrochemical sensor for sensitive and selective detection of ascorbic acid in real samples. Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 360-371.	5.3	36
60	Synergistic ammonia and fatty acids inhibition of microbial communities during slaughterhouse waste digestion for biogas production. Bioresource Technology, 2021, 337, 125383.	9.6	36
61	Immersion Plating of Copper on Porous Silicon in Various Solutions. Physica Status Solidi A, 2000, 182, 71-77.	1.7	35
62	Silver nanoparticles decorated stain-etched mesoporous silicon for sensitive, selective detection of ascorbic acid. Materials Letters, 2019, 234, 96-100.	2.6	35
63	Highly sensitive and selective 2-nitroaniline chemical sensor based on Ce-doped SnO2 nanosheets/Nafion-modified glassy carbon electrode. Advanced Composites and Hybrid Materials, 2021, 4, 1015-1026.	21.1	35
64	Novel synthesis of Polyaniline/SrSnO3 nanocomposites with enhanced photocatalytic activity. Ceramics International, 2019, 45, 20484-20492.	4.8	34
65	Cascade strand displacement reaction-assisted aptamer-based highly sensitive detection of ochratoxin A. Food Chemistry, 2021, 338, 127827.	8.2	34
66	Co-fermentation of immobilized yeasts boosted bioethanol production from pretreated cotton stalk lignocellulosic biomass: Long-term investigation. Industrial Crops and Products, 2021, 159, 113122.	5.2	34
67	Synthesis and surface properties of magnetite (Fe3O4) nanoparticles infiltrated into porous silicon template. Applied Surface Science, 2013, 287, 203-210.	6.1	33
68	Enhanced efficiency and current density of solar cells via energy-down-shift having energy-tuning-effect of highly UV-light-harvesting Mn2+-doped quantum dots. Nano Energy, 2017, 33, 257-265.	16.0	33
69	A comparative electrochemical study of iron deposition onto n- and p-type porous silicon prepared from lightly doped substrates. Electrochimica Acta, 2005, 50, 5340-5348.	5.2	31
70	Impregnation of porous silicon with conducting polymers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1883-1887.	0.8	31
71	Electrochemically deposited cobalt/platinum (Co/Pt) film into porous silicon: Structural investigation and magnetic properties. Applied Surface Science, 2013, 264, 391-398.	6.1	31
72	Mesoporous TiO2 based optical sensor for highly sensitive and selective detection and preconcentration of Bi(III) ions. Chemical Engineering Journal, 2014, 243, 509-516.	12.7	31

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73	An efficient amperometric catechol sensor based on novel polypyrrole-carbon black doped Î±-Fe2O3 nanocomposite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 619, 126469.	4.7	31
74	MWCNT-Doped Polypyrrole-Carbon Black Modified Glassy Carbon Electrode for Efficient Electrochemical Sensing of Nitrite Ions. Electrocatalysis, 2021, 12, 650-666.	3.0	31
75	Biologically Synthesized Silver Nanoparticles for Enhancing Tetracycline Activity Against Staphylococcus aureus and Klebsiella pneumoniae. Brazilian Archives of Biology and Technology, 0, 62, .	0.5	31
76	Sensing of chemical vapor using a porous multilayer prepared from lightly doped silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2073-2077.	0.8	30
77	Polyethylene glycol-assisted hydrothermal growth of magnetite nanowires: Synthesis and magnetic properties. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 3131-3136.	2.7	30
78	Novel polypyrrole-carbon black doped ZnO nanocomposite for efficient amperometric detection of hydroquinone. Journal of Electroanalytical Chemistry, 2021, 898, 115631.	3.8	30
79	Efficient hydrazine electrochemical sensor based on PANI doped mesoporous SrTiO3 nanocomposite modified glassy carbon electrode. Journal of Electroanalytical Chemistry, 2020, 879, 114805.	3.8	29
80	Pore filling of macropores prepared in p-type silicon by copper deposition. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1683-1687.	1.8	28
81	Biocatalytic CsPbX₃ Perovskite Nanocrystals: A Selfâ€Reporting Nanoprobe for Metabolism Analysis. Small, 2021, 17, e2103255.	10.0	28
82	Biomass-derived active Carbon@ZnO/SnO2 novel visible-light photocatalyst for rapid degradation of linezolid antibiotic and imidacloprid insecticide. Journal of the Taiwan Institute of Chemical Engineers, 2021, 120, 313-324.	5.3	27
83	Sensitive Detection of Aqueous Methanol by Electrochemical Route Using Mesoporous Î±-Fe₂O₃ Doped CdSe Nanostructures Modified Glassy Carbon Electrode. Journal of the Electrochemical Society, 2021, 168, 057525.	2.9	27
84	Highly Sensitive Ethanol Chemical Sensor Based on Novel Ag-Doped Mesoporous Î±â€“Fe2O3 Prepared by Modified Sol-Gel Process. Nanoscale Research Letters, 2018, 13, 157.	5.7	26
85	Electrochemical formation of a novel porous silicon/polypyrrole hybrid structure with enhanced electrical and optical characteristics. Journal of Electroanalytical Chemistry, 2014, 729, 68-74.	3.8	25
86	A facile synthesis of mesoporous PdZnO nanocomposites as efficient chemical sensor. Superlattices and Microstructures, 2016, 95, 128-139.	3.1	25
87	Clean light oriented ultrafast Pt/Bi2S3 nanoflakes for the photocatalytic destruction of gemifloxacin mesylate drug and methylene blue. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 414, 113288.	3.9	25
88	Immersion plating of copper using (CF3SO3)2Cu onto porous silicon from organic solutions. Electrochimica Acta, 2001, 46, 2805-2810.	5.2	24
89	Mesoporous Ag/ZnO multilayer films prepared by repeated spin-coating for enhancing its photonic efficiencies. Surface and Coatings Technology, 2015, 263, 44-53.	4.8	24
90	Microalgae Isolation for Nutrient Removal Assessment and Biodiesel Production. Bioenergy Research, 2020, 13, 1247-1259.	3.9	24

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91	Highly sensitive ethanol chemical sensor based on nanostructured SnO2 doped ZnO modified glassy carbon electrode. Chemical Physics Letters, 2015, 639, 238-242.	2.6	22
92	Enhanced electrical and luminescent performance of a porous silicon/MEH-PPV nanohybrid synthesized by anodization and repeated spin coating. RSC Advances, 2015, 5, 99892-99898.	3.6	21
93	Inverted polymer solar cell based on MEH-PPV/PC 61 BM coupled with ZnO nanoparticles as electron transport layer. Applied Surface Science, 2017, 425, 156-163.	6.1	21
94	Development of an amperometric biosensor for dopamine using novel mesoporous silicon nanoparticles fabricated via a facile stain etching approach. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 135, 114952.	2.7	21
95	Fabrication of an artificial ionic gate inspired by mercury-resistant bacteria for simple and sensitive detection of mercury ion. Sensors and Actuators B: Chemical, 2021, 326, 128976.	7.8	20
96	Highly sensitive and selective thiourea electrochemical sensor based on novel silver nanoparticles/chitosan nanocomposite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128879.	4.7	20
97	Enhancement of porous silicon photoluminescence by chemical and electrochemical infiltration of conducting polymers. Scripta Materialia, 2013, 68, 683-686.	5.2	19
98	Immersion-plated palladium nanoparticles onto meso-porous silicon layer as novel SERS substrate for sensitive detection of imidacloprid pesticide. Scientific Reports, 2021, 11, 9174.	3.3	19
99	Rapid photodegradation of linezolid antibiotic and methylene blue dye over Pt nanoparticles/polypyrrole-carbon black/ZnO novel visible light photocatalyst. Journal of Environmental Chemical Engineering, 2021, 9, 106773.	6.7	19
100	Macropore growth in a prepatterned p-type silicon wafer. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1321-1326.	1.8	18
101	Iron-Doped Titanium Dioxide Nanoparticles As Potential Scaffold for Hydrazine Chemical Sensor Applications. Coatings, 2020, 10, 182.	2.6	18
102	One-step synthesis of heterojunction Cr2O3 nanoparticles decorated Bi2S3 nanorods with enhanced photocatalytic activity for mineralization of organic pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 419, 113468.	3.9	18
103	Ammonium iodide salt-doped polyvinyl alcohol polymeric electrolyte for UV-shielding filters: synthesis, optical and dielectric characteristics. Journal of Materials Science: Materials in Electronics, 2021, 32, 4416-4436.	2.2	18
104	Highly sensitive and selective amperometric hydrazine sensor based on Au nanoparticle-decorated conducting polythiophene prepared via oxidative polymerization and photo-reduction techniques. Journal of Saudi Chemical Society, 2022, 26, 101480.	5.2	18
105	A highly sensitive and durable electrical sensor for liquid ethanol using thermally-oxidized mesoporous silicon. Superlattices and Microstructures, 2016, 100, 1064-1072.	3.1	17
106	Synthesis of amorphous ZnOâ€“SiO2 nanocomposite with enhanced chemical sensing properties. Thin Solid Films, 2016, 605, 277-282.	1.8	17
107	Gold nanoparticles plated porous silicon nanopowder for nonenzymatic voltammetric detection of hydrogen peroxide. Analytical Biochemistry, 2021, 615, 114065.	2.4	17
108	Biomethanation and microbial community response during agricultural biomass and shrimp chaff digestion. Environmental Pollution, 2021, 278, 116801.	7.5	17

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109	Co-assembly of Peptides and Carbon Nanodots: Sensitive Analysis of Transglutaminase 2. ACS Applied Materials & Interfaces, 2021, 13, 36919-36925.	8.0	17
110	Pt nanoparticles decorated chitosan/ZnTiO3: Ternary visible-light photocatalyst for ultrafast treatment of insecticide imidacloprid and methylene blue. Journal of the Taiwan Institute of Chemical Engineers, 2022, 133, 104266.	5.3	17
111	Electrical porous silicon sensor for detection of various organic molecules in liquid phase. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1851-1857.	1.8	16
112	A Facile Synthesis of a-Fe2O3/Carbon Nanotubes and Their Photocatalytic and Electrochemical Sensing Performances. International Journal of Electrochemical Science, 2019, 14, 15-32.	1.3	16
113	Solâ€“gel synthesis of ZnOâ€“SiO2 thin films: impact of ZnO contents on its photonic efficiency. Journal of Sol-Gel Science and Technology, 2014, 71, 224-233.	2.4	15
114	Catalytic hydrogenation of crotonaldehyde and oxidation of benzene over active and recyclable palladium nanoparticles stabilized by polyethylene glycol. Journal of Molecular Catalysis A, 2013, 370, 182-188.	4.8	14
115	Morphological investigation and magnetic properties of nickel zinc ferrite 1D nanostructures synthesized via thermal decomposition method. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	14
116	Tuning the redox potential of vitamin K₃ derivatives by oxidative functionalization using a Ag(<scp>i</scp>)/GO catalyst. Chemical Communications, 2017, 53, 8890-8893.	4.1	14
117	Peptide Assembled in a Nano-confined Space as a Molecular Rectifier for the Availability of Ionic Current Modulation. Nano Letters, 2022, 22, 1083-1090.	9.1	14
118	Enhanced photocatalytic reduction of Cr(VI) on silver nanoparticles modified mesoporous silicon under visible light. Journal of the American Ceramic Society, 2019, 102, 5071-5081.	3.8	13
119	Photoreduction coupling of NiO/SiO2 nanocomposite with palladium and yttria nanoparticles: Visible-light-driven photocatalysts. Materials Research Bulletin, 2020, 131, 110965.	5.2	13
120	Green synthesis of antibacterial chitosan films loaded with silver nanoparticles. Chinese Journal of Polymer Science (English Edition), 2013, 31, 984-993.	3.8	12
121	Highly efficient biomass-derived carbon@Au/ZnO novel ternary photocatalyst for ultra-fast degradation of gemifloxacin drug. Journal of Materials Research and Technology, 2021, 14, 954-967.	5.8	12
122	Novel Si nanostructures via Ag-assisted chemical etching route on single and polycrystalline substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114793.	3.5	11
123	Mechanistic investigation and photocatalytic activity of yttrium vanadate (YVO4) nanoparticles for organic pollutants mineralization. Journal of Materials Research and Technology, 2020, 9, 5666-5675.	5.8	11
124	Performance of functionalized 1T-MoS2 as composite counter electrode material for QDSSCs and its analogy with 2H-MoS2. Materials Research Bulletin, 2021, 134, 111096.	5.2	11
125	Superior UV-light photocatalysts of nano-crystalline (Ni or Co) FeWO₄: structure, optical characterization and synthesis by a microemulsion method. New Journal of Chemistry, 2021, 45, 3150-3159.	2.8	11
126	Surface modification of CuO nanoparticles with conducting polythiophene as a non-enzymatic amperometric sensor for sensitive and selective determination of hydrogen peroxide. Surfaces and Interfaces, 2022, 31, 101998.	3.0	11

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127	Biomass-derived carbon decorated by gold nanoparticles as efficient methanol electrochemical sensor. Materials Science in Semiconductor Processing, 2022, 146, 106693.	4.0	10
128	Morphological and Optical Properties of SnO2 Doped ZnO Nanocomposites for Electrochemical Sensing of Hydrazine. International Journal of Electrochemical Science, 2019, 14, 1461-1478.	1.3	9
129	Troubleshooting the Limited Zn²⁺ Storage Performance of the Ag₂V₄O₁₁ Cathode in Zinc Sulfate Electrolytes via Favorable Synergism with Reduced Graphene Oxides. ACS Applied Energy Materials, 2022, 5, 8292-8303.	5.1	9
130	Influence of Annealing Temperature on Photocatalytic and Electrochemical Sensing Properties of SnO2/ZnO Nanocomposites. International Journal of Electrochemical Science, 2018, 13, 6626-6642.	1.3	8
131	Hydrazone chemistry assisted DNAzyme for the analysis of double targets. Chemical Communications, 2020, 56, 695-698.	4.1	8
132	Facilitated lignocellulosic biomass digestibility in anaerobic digestion for biomethane production: microbial communities' structure and interactions. Journal of Chemical Technology and Biotechnology, 2021, 96, 1798-1817.	3.2	8
133	Review on Electrochemical Sensing of Triclosan using Nanostructured Semiconductor Materials. ChemElectroChem, 2022, 9, .	3.4	8
134	Ag nanoparticles-polypyrrole-carbon black/mesoporous TiO2 novel nanocomposite as ultrafast visible-light-driven photocatalyst. Ceramics International, 2022, 48, 16997-17008.	4.8	8
135	Nitrogenated Graphene Oxide-Decorated Metal Sulfides for Better Antifouling and Dye Removal. ACS Omega, 2022, 7, 9674-9683.	3.5	8
136	Electrochemical Trans-Channel Assay for Efficient Evaluation of Tumor Cell Invasiveness. ACS Applied Materials & Interfaces, 2021, 13, 17268-17275.	8.0	7
137	A Novel Technique to Detect False Data Injection Attacks on Phasor Measurement Units. Sensors, 2021, 21, 5791.	3.8	7
138	False Data Injection Detection for Phasor Measurement Units. Sensors, 2022, 22, 3146.	3.8	7
139	One-pot synthesis of multifunctionalized Nd2O3 dispersed ZnO nanocomposites for enhancing electrical, optical, and photocatalytic applications. Journal of Materials Research and Technology, 2022, 19, 967-988.	5.8	7
140	Nanocrystalline zinc oxide thin films prepared by electrochemical technique for advanced applications. International Journal of Nanoparticles, 2012, 5, 136.	0.3	6
141	Highly selective colorimetric detection and preconcentration of Bi(III) ions by dithizone complexes anchored onto mesoporous TiO2. Nanoscale Research Letters, 2014, 9, 62.	5.7	6
142	Structural and optical investigation on alpha particle irradiated CR-39 surface coated by MEH-PPV conducting polymer. Applied Surface Science, 2015, 347, 685-689.	6.1	6
143	Proximity-constructed bifunctional DNA probes for identification of stem-like biomarker in breast cancer. Sensors and Actuators B: Chemical, 2021, 328, 129044.	7.8	6
144	Synthesis, optical properties, and impedance spectroscopy of Na2TeO3 doped polyvinyl alcohol as novel polymeric electrolyte films. Optical and Quantum Electronics, 2021, 53, 1.	3.3	5

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145	Comprehensive Analysis of Spinel-Type Mixed Metal Oxide-Functionalized Polysulfone Membranes toward Fouling Resistance and Dye and Natural Organic Matter Removal. ACS Omega, 2022, 7, 4859-4867.	3.5	5
146	Photoluminescence detection of alpha particle using DAM-ADC nuclear detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 115-118.	1.6	4
147	Organic analytes sensitivity in meso-porous silicon electrical sensor with front side and backside contacts. Arabian Journal of Chemistry, 2020, 13, 444-452.	4.9	4
148	Surface-enhanced Raman scattering (SERS) active substrate from gold nanoparticle-coated porous silicon for sensitive detection of horseradish peroxidase enzyme. Materials Chemistry and Physics, 2022, 281, 125931.	4.0	4
149	Electrical and magnetic properties of Niâ€“Cuâ€“Si heterojunction prepared by the liquid phase epitaxy technique. Journal of Physics and Chemistry of Solids, 2010, 71, 1521-1526.	4.0	3
150	Super Bonding Strength of Al2O3 Nanoparticles Reinforced Sn Interlayer Steel/Aluminum Bimetal Casting. Crystals, 2022, 12, 324.	2.2	3
151	Ag nanoparticle-decorated chitosan/SrSnO3 nanocomposite for ultrafast elimination of antibiotic linezolid and methylene blue. Environmental Science and Pollution Research, 2022, 29, 52900-52914.	5.3	3
152	Material Deposition into Porous Silicon Template. ECS Transactions, 2015, 69, 23-28.	0.5	2
153	Novel porous silicon/MEH-PPV nanohybrid electrical sensor for sensitive detection of liquid methanol. Materials Letters, 2021, 293, 129734.	2.6	2
154	Tuning Electrocatalytic Activity of Gold Silver Nanoparticles on Reduced Graphene Oxide for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 0, , .	2.9	2
155	Real time nanoplasmonic sensing for monitoring CH3NH3PbI3 perovskite formation in mesoporous TiO2 films. AIP Advances, 2019, 9, 125017.	1.3	1
156	Porous Silicon and Conductive Polymer Nanostructures Via Templating. , 2014, , 611-622.		1
157	Platinumâ€“Dysprosium Alloys as Oxygen Electrodes in Alkaline Media: An Experimental and Theoretical Study. Nanomaterials, 2022, 12, 2318.	4.1	1
158	Porous Silicon and Conductive Polymer Nanostructures via Templating. , 2014, , 1-10.		0
159	Porous Silicon and Templating. , 2017, , 1-13.		0
160	Porous Silicon and Templating. , 2018, , 961-972.		0
161	Alpha particles detection using P3HT conducting polymer-coated DAM-ADC. Radiation Physics and Chemistry, 2022, 190, 109820.	2.8	0
162	Simple Synthesis and Characterization of Novel Polyvinyl Alcohol Capped Sodium Selenite Solid Composite Film (PVA: NaSe SCF) Samples. Journal of Science: Advanced Materials and Devices, 2022, , 100458.	3.1	0