

# Ayman nafady

## List of Publications by Year in descending order

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214  
papers

6,798  
citations

53794

45  
h-index

85541

71  
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221  
all docs

221  
docs citations

221  
times ranked

7288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in MOF-based photocatalysis: environmental remediation under visible light. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 300-339.	6.0	429
2	A MOF-based Ultra-strong Acetylene Nano-trap for Highly Efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5283-5288.	13.8	172
3	Lower Activation Energy for Catalytic Reactions through Host-Guest Cooperation within Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10107-10111.	13.8	166
4	MnO Nanoparticle-Dispersed CeO <sub>2</sub> Nanocubes: A Remarkable Heteronanostructured System with Unusual Structural Characteristics and Superior Catalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16525-16535.	8.0	154
5	Facile Approach to Graft Ionic Liquid into MOF for Improving the Efficiency of CO <sub>2</sub> Chemical Fixation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27124-27130.	8.0	142
6	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8670-8675.	13.8	128
7	Designing Cu Nanoparticle-Decorated CeO <sub>2</sub> Nanocubes for Catalytic Soot Oxidation: Role of the Nanointerface in the Catalytic Performance of Heterostructured Nanomaterials. <i>Langmuir</i> , 2016, 32, 2208-2215.	3.5	127
8	Effective and fast adsorptive removal of toxic cationic dye (MB) from aqueous medium using amino-functionalized magnetic multiwall carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019, 282, 154-161.	4.9	124
9	Ceria-zirconia modified MnO catalysts for gaseous elemental mercury oxidation and adsorption. <i>Catalysis Science and Technology</i> , 2016, 6, 1792-1803.	4.1	122
10	One-Electron Oxidation of Ruthenocene: Reactions of the Ruthenocenium Ion in Gentle Electrolyte Media. <i>Inorganic Chemistry</i> , 2009, 48, 2156-2165.	4.0	118
11	Nanowire Morphology of Mono- and Bidoped MnO Catalysts for Remarkable Enhancement in Soot Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32652-32666.	8.0	116
12	Application of nanotechnology in agriculture, postharvest loss reduction and food processing: food security implication and challenges. <i>Heliyon</i> , 2021, 7, e08539.	3.2	116
13	Synthesis and characterization of new Cr(III), Fe(III) and Cu(II) complexes incorporating multi-substituted aryl imidazole ligand: Structural, DFT, DNA binding, and biological implications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117700.	3.9	107
14	L-cysteine protected copper nanoparticles as colorimetric sensor for mercuric ions. <i>Talanta</i> , 2014, 130, 415-422.	5.5	106
15	Tunable Synthesis of Hollow Metal-Nitrogen Carbon Capsules for Efficient Oxygen Reduction Catalysis in Proton Exchange Membrane Fuel Cells. <i>ACS Nano</i> , 2019, 13, 8087-8098.	14.6	106
16	Redox Activity and Two-Step Valence Tautomerism in a Family of Dinuclear Cobalt Complexes with a Spiroconjugated Bis(dioxolene) Ligand. <i>Journal of the American Chemical Society</i> , 2013, 135, 8304-8323.	13.7	102
17	Preparation of Metal-TCNQ Charge-Transfer Complexes on Conducting and Insulating Surfaces by Photocrystallization. <i>Journal of the American Chemical Society</i> , 2007, 129, 2066-2073.	13.7	98
18	Co <sub>3</sub> O <sub>4</sub> @CeO <sub>2</sub> hybrid flower-like microspheres: a strong synergistic peroxidase-mimicking artificial enzyme with high sensitivity for glucose detection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 720-730.	5.8	96

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19	Pore environment engineering in metal-organic frameworks for efficient ethane/ethylene separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13585-13590.	10.3	91
20	Characterization of the Successive One-Electron Oxidation Products of the Dicobalt Fulvalenediyl (Fv) Compound $\text{Co}_2\text{Fv}(\text{CO})_4$ and its Phosphine-Substituted Product. <i>Organometallics</i> , 2008, 27, 5624-5631.	2.3	90
21	Nanospace Engineering of Metal-Organic Frameworks through Dynamic Spacer Installation of Multifunctionalities for Efficient Separation of Ethane from Ethane/Ethylene Mixtures. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9680-9685.	13.8	89
22	Pore surface engineering of covalent organic frameworks: structural diversity and applications. <i>Nanoscale</i> , 2019, 11, 21679-21708.	5.6	82
23	Characterization and Reactions of Previously Elusive 17-Electron Cations: Electrochemical Oxidations of $(\text{C}_6\text{H}_6)\text{Cr}(\text{CO})_3$ and $(\text{C}_5\text{H}_5)\text{Co}(\text{CO})_2$ in the Presence of $[\text{B}(\text{C}_6\text{F}_5)_4]^-$ . <i>Journal of the American Chemical Society</i> , 2002, 124, 7260-7261.	13.7	76
24	Tuning the Electrocrystallization Parameters of Semiconducting $\text{Co}[\text{TCNQ}]_2$ -Based Materials To Yield either Single Nanowires or Crystalline Thin Films. <i>Journal of the American Chemical Society</i> , 2007, 129, 2369-2382.	13.7	75
25	Controlling Core/Shell Formation of Nanocubic $\text{Cu}_2\text{O}/\text{ZnO}$ Toward Enhanced Photocatalytic Performance. <i>Langmuir</i> , 2015, 31, 10922-10930.	3.5	75
26	$[\text{Re}(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_3]^+$ -Family of 17-Electron Compounds: Monomer/Dimer Equilibria and Other Reactions. <i>Journal of the American Chemical Society</i> , 2008, 130, 2692-2703.	13.7	69
27	Electrochemical Preparation of the Bis(ruthenocenium) Dication. <i>Inorganic Chemistry</i> , 2003, 42, 5480-5482.	4.0	68
28	Enhancing Photocatalytic Hydrogen Production via the Construction of Robust Multivariate $\text{Ti-MOF/COF}$ Composites. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	67
29	Electrochemical and photochemical routes to semiconducting transition metal-tetracyanoquinodimethane coordination polymers. <i>Coordination Chemistry Reviews</i> , 2014, 268, 101-142.	18.8	66
30	Covalent Organic Framework Decorated with Vanadium as a New Platform for Prins Reaction and Sulfide Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3070-3079.	8.0	66
31	Glycine-assisted synthesis of NiO hollow cage-like nanostructures for sensitive non-enzymatic glucose sensing. <i>RSC Advances</i> , 2015, 5, 18773-18781.	3.6	62
32	Observation of Ferromagnetic Exchange, Spin Crossover, Reductively Induced Oxidation, and Field-Induced Slow Magnetic Relaxation in Monomeric Cobalt Nitroxides. <i>Inorganic Chemistry</i> , 2013, 52, 7557-7572.	4.0	61
33	Manipulating the Electrolyte Medium to Favor Either One-Electron or Two-Electron Oxidation Pathways for (Fulvalenediyl)dirhodium Complexes. <i>Organometallics</i> , 2006, 25, 1654-1663.	2.3	59
34	Chemical, physical, and biological properties of Pd(II), V(IV)O, and Ag(I) complexes of $\text{N}_3$ tridentate pyridine-based Schiff base ligand. <i>Journal of Coordination Chemistry</i> , 2020, 73, 3150-3173.	2.2	59
35	Electrochemical Oxidation of $\text{CoCp}(\text{CO})_2$ : Radical-Substrate Reaction of a 17 e-/18 e-Pair and Production of a Unique Dimer Radical. <i>Journal of the American Chemical Society</i> , 2006, 128, 16587-16599.	13.7	57
36	A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19618-19622.	13.8	57

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37	Catalytic Oxidation of Benzyl Alcohol Using Nanosized Cu/Ni Schiff-Base Complexes and Their Metal Oxide Nanoparticles. <i>Catalysts</i> , 2018, 8, 452.	3.5	56
38	Hollow capsules of doped carbon incorporating metal@metal sulfide and metal@metal oxide core-shell nanoparticles derived from metal-organic framework composites for efficient oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3624-3631.	10.3	53
39	Ultra-trace level electrochemical sensor for methylene blue dye based on nafion stabilized ibuprofen derived gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 320-326.	7.8	51
40	The formation of gold nanoparticles using hydroquinone as a reducing agent through a localized pH change upon addition of NaOH to a solution of HAuCl <sub>4</sub> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 370, 35-41.	4.7	50
41	Development of sensitive non-enzymatic glucose sensor using complex nanostructures of cobalt oxide. <i>Materials Science in Semiconductor Processing</i> , 2015, 34, 373-381.	4.0	50
42	Recent advances in preparation methods for catalytic thin films and coatings. <i>Catalysis Science and Technology</i> , 2019, 9, 3582-3602.	4.1	50
43	Chemically and electrochemically induced expansion and contraction of a ferrocene rotor. <i>Chemical Communications</i> , 2015, 51, 8161-8164.	4.1	49
44	Simpler and highly sensitive enzyme-free sensing of urea via NiO nanostructures modified electrode. <i>RSC Advances</i> , 2016, 6, 39001-39006.	3.6	49
45	A MOF-based Ultra-Strong Acetylene Nano-trap for Highly Efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. <i>Angewandte Chemie</i> , 2021, 133, 5343-5348.	2.0	49
46	Installation of synergistic binding sites onto porous organic polymers for efficient removal of perfluorooctanoic acid. <i>Nature Communications</i> , 2022, 13, 2132.	12.8	49
47	Second-sphere Interaction Promoted Turn-On Fluorescence for Selective Sensing of Organic Amines in a Tb <sup>III</sup> -based Macrocyclic Framework. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23705-23712.	13.8	48
48	Vanadium Docked Covalent-Organic Frameworks: An Effective Heterogeneous Catalyst for Modified Mannich-Type Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4878-4888.	6.7	46
49	Morphology Changes and Mechanistic Aspects of the Electrochemically-Induced Reversible Solid-Solid Transformation of Microcrystalline TCNQ into Co[TCNQ] <sub>2</sub> -Based Materials (TCNQ =) Tj ETQq1 1 0.784374 rgBT4@verloc		
50	Mercury Sorption and Desorption on Gold: A Comparative Analysis of Surface Acoustic Wave and Quartz Crystal Microbalance-Based Sensors. <i>Langmuir</i> , 2015, 31, 8519-8529.	3.5	43
51	Tranexamic acid derived gold nanoparticles modified glassy carbon electrode as sensitive sensor for determination of nalbuphine. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 359-369.	7.8	42
52	Sensitive and selective aggregation based colorimetric sensing of Fe <sup>3+</sup> via interaction with acetyl salicylic acid derived gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 1006-1012.	7.8	42
53	Non-Linear Optical Property and Biological Assays of Therapeutic Potentials Under In Vitro Conditions of Pd(II), Ag(I) and Cu(II) Complexes of 5-Diethyl amino-2-({2-[(2-hydroxy-Benzylidene)-amino]-phenylimino}-methyl)-phenol. <i>Molecules</i> , 2020, 25, 5089.	3.8	42
54	3D Cationic Polymeric Network Nanotrap for Efficient Collection of Perrhenate Anion from Wastewater. <i>Small</i> , 2021, 17, e2007994.	10.0	42

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55	Voltammetric, Spectroscopic, and Microscopic Investigations of Electrocrystallized Forms of Semiconducting AgTCNQ (TCNQ = 7,7,8,8-Tetracyanoquinodimethane) Exhibiting Different Morphologies and Colors. <i>Chemistry of Materials</i> , 2007, 19, 5499-5509.	6.7	40
56	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. <i>Angewandte Chemie</i> , 2019, 131, 8762-8767.	2.0	40
57	Chemical composition and Biological studies of <i>Ficus benjamina</i> . <i>Chemistry Central Journal</i> , 2014, 8, 12.	2.6	39
58	Synthesis, Characterization, Theoretical Studies, and Antimicrobial/Antitumor Potencies of Salen and Salen/Imidazole Complexes of Co (II), Ni (II), Cu (II), Cd (II), Al (III) and La (III). <i>Applied Organometallic Chemistry</i> , 2020, 34, e5912.	3.5	39
59	Detailed Electrochemical Analysis of the Redox Chemistry of Tetrafluorotetracyanoquinodimethane TCNQF <sub>4</sub> , the Radical Anion [TCNQF <sub>4</sub> ] <sup>•-</sup> , and the Dianion [TCNQF <sub>4</sub> ] <sup>2-</sup> in the Presence of Trifluoroacetic Acid. <i>Analytical Chemistry</i> , 2011, 83, 6731-6737.	6.5	38
60	Green Synthesis of AgNPs Utilizing <i>Delonix Regia</i> Extract as Anticancer and Antimicrobial Agents. <i>ChemistrySelect</i> , 2020, 5, 13263-13268.	1.5	38
61	Anion Dependent Redox Changes in Iron Bis-terdentate Nitroxide {NNO} Chelates. <i>Inorganic Chemistry</i> , 2011, 50, 3052-3064.	4.0	37
62	Anodic Preparation of [Re <sub>2</sub> Cp <sub>2</sub> (CO) <sub>6</sub> ] <sup>2+</sup> : A Dimeric Dication that Provides the Powerful One-Electron Oxidant [ReCp(CO) <sub>3</sub> ] <sup>+</sup> . <i>Journal of the American Chemical Society</i> , 2005, 127, 15676-15677.	13.7	34
63	Efficient Electron Transfer from Electron-Sponge Polyoxometalate to Single-Metal Site Metal-Organic Frameworks for Highly Selective Electroreduction of Carbon Dioxide. <i>Small</i> , 2021, 17, e2100762.	10.0	34
64	Lower Activation Energy for Catalytic Reactions through Host-Guest Cooperation within Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 10264-10268.	2.0	33
65	Cefuroxime derived copper nanoparticles and their application as a colorimetric sensor for trace level detection of picric acid. <i>RSC Advances</i> , 2016, 6, 82882-82889.	3.6	30
66	Electrospun carbon nanofiber-encapsulated NiS nanoparticles as an efficient catalyst for hydrogen production from hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21716-21725.	7.1	30
67	Structural modifications in Co-Zn nanoferrites by Gd substitution triggering to dielectric and gas sensing applications. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156178.	5.5	30
68	Nanostructured Co <sub>3</sub> O <sub>4</sub> electrocatalyst for OER: The role of organic polyelectrolytes as soft templates. <i>Electrochimica Acta</i> , 2021, 398, 139338.	5.2	30
69	NiCo <sub>2</sub> O <sub>4</sub> nanostructures loaded onto pencil graphite rod: An advanced composite material for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6650-6665.	7.1	30
70	Redox-Induced Solid-Solid Phase Transformation of TCNQ Microcrystals into Semiconducting Ni[TCNQ] <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> Nanowire (Flowerlike) Architectures: A Combined Voltammetric, Spectroscopic, and Microscopic Study. <i>Inorganic Chemistry</i> , 2007, 46, 4128-4137.	4.0	29
71	Structural, spectroscopic, FMOs, and non-linear optical properties exploration of three thiacaix(4)arenes derivatives. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103656.	4.9	29
72	Recent Advances in Mesoporous Silica Nanoparticles for Targeted Drug Delivery Applications. <i>Current Drug Delivery</i> , 2022, 19, 436-450.	1.6	28

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73	Electrode Kinetics Associated with Tetracyanoquinodimethane (TCNQ), TCNQ <sup>•-</sup> , and TCNQ <sup>2•-</sup> Redox Chemistry in Acetonitrile As Determined by Analysis of Higher Harmonic Components Derived from Fourier Transformed Large Amplitude ac Voltammetry. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24153-24163.	3.1	27
74	Voltammetric reduction and re-oxidation of solid coordination polymers of dihydroxybenzoquinone. <i>Chemical Communications</i> , 2012, 48, 11422.	4.1	27
75	Cotton cloth supported tungsten carbide/carbon nanocomposites as a Janus film for solar driven interfacial water evaporation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23140-23148.	10.3	26
76	Fabrication of Er, Tb doped CuO thin films using nebulizer spray pyrolysis technique for photosensing applications. <i>Optical Materials</i> , 2022, 123, 111954.	3.6	26
77	Controllable Synthesis and Fabrication of Semiconducting Nanorod/Nanowire Bundles of Fe[TCNQ] <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> via Electrochemically Induced Solid-Solid Phase Transformation of TCNQ Microcrystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6700-6709.	3.1	25
78	Fabrication of oxidized graphite supported La <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> nanocomposite for the photoremediation of toxic fast green dye. <i>Journal of Molecular Liquids</i> , 2019, 277, 738-748.	4.9	25
79	Single-Pore versus Dual-Pore Bipyridine-Based Covalent Organic Frameworks: An Insight into the Heterogeneous Catalytic Activity for Selective C-H Functionalization. <i>Small</i> , 2021, 17, e2003970.	10.0	25
80	Two step synthesis of TiO <sub>2</sub> -Co <sub>3</sub> O <sub>4</sub> composite for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9110-9122.	7.1	25
81	Utilization of cationic microporous metal-organic framework for efficient Xe/Kr separation. <i>Nano Research</i> , 2022, 15, 7559-7564.	10.4	25
82	Hyperelectronic Metal-Carborane Analogues of Cymantrene (MnCp(CO) <sub>3</sub> ) Anions: Electronic and Structural Noninnocence of the Tricarbadiaboranyl Ligand. <i>Organometallics</i> , 2007, 26, 4471-4482.	2.3	24
83	Iridium complex immobilization on covalent organic framework for effective C-H borylation. <i>APL Materials</i> , 2019, 7, .	5.1	24
84	Design, synthesis and molecular modeling of novel aryl carboximidamides and 3-aryl-1,2,4-oxadiazoles derived from indomethacin as potent anti-inflammatory iNOS/PGE2 inhibitors. <i>Bioorganic Chemistry</i> , 2020, 105, 104439.	4.1	24
85	Preparation and thermoelectric power properties of highly doped p-type Sb <sub>2</sub> Te <sub>3</sub> thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114505.	2.7	23
86	Redox and Acid-Base Chemistry of 7,7,8,8-Tetracyanoquinodimethane, 7,7,8,8-Tetracyanoquinodimethane Radical Anion, 7,7,8,8-Tetracyanoquinodimethane Dianion, and Dihydro-7,7,8,8-Tetracyanoquinodimethane in Acetonitrile. <i>Analytical Chemistry</i> , 2012, 84, 2343-2350.	6.5	22
87	Cu <sub>2</sub> I <sub>2</sub> (TCNQF <sub>4</sub> ) <sup>•-</sup> (MeCN) <sub>2</sub> (TCNQF <sub>4</sub> = 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane): Voltammetry, Simulations, Bulk Electrolysis, Spectroscopy, Photoactivity, and X-ray Crystal Structure of the Cu <sub>2</sub> I <sub>2</sub> (TCNOF <sub>4</sub> ) <sup>•-</sup> (EtCN) <sub>2</sub> Analogue. <i>Inorganic Chemistry</i> , 2014, 53, 3230-3242.	4.0	22
88	Cellulose acetate nanofibers embedded with Ag nanoparticles/CdSe/graphene oxide composite for degradation of methylene blue. <i>Synthetic Metals</i> , 2021, 278, 116824.	3.9	22
89	Design and fabrication of green and sustainable vapochromic cellulose fibers embedded with natural anthocyanin for detection of toxic ammonia. <i>Talanta</i> , 2021, 230, 122292.	5.5	22
90	Catalytic Reductive Degradation of Methyl Orange Using Air Resilient Copper Nanostructures. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-12.	2.7	21

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91	Easy, one-step synthesis of CdTe quantum dots via microwave irradiation for fingerprinting application. <i>Materials Research Bulletin</i> , 2017, 90, 260-265.	5.2	21
92	Biogenic Silver Nanoparticles for Trace Colorimetric Sensing of Enzyme Disrupter Fungicide Vinclozolin. <i>Nanomaterials</i> , 2019, 9, 1604.	4.1	21
93	Ranolazine-Functionalized Copper Nanoparticles as a Colorimetric Sensor for Trace Level Detection of As <sup>3+</sup> . <i>Nanomaterials</i> , 2019, 9, 83.	4.1	21
94	Synthesis of Co(OH) <sub>2</sub> /CNTs nanocomposite with superior rate capability and cyclic stability for energy storage applications. <i>Materials Research Express</i> , 2020, 7, 125501.	1.6	21
95	Scalable and low-cost fabrication of flexible WS <sub>2</sub> photodetectors on polycarbonate. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	21
96	AFM study of morphological changes associated with electrochemical solid–solid transformation of three-dimensional crystals of TCNQ to metal derivatives (metal = Cu, Co, Ni); <i>Tj ETQq0 0 0 rgBT /Overlock 2.0 Tf 50 537 Td (TC</i>	2.0	21
97	Direct synthesis and stabilization of Bi-sized cysteine-derived gold nanoparticles: Reduction catalyst for methylene blue. <i>Journal of the Iranian Chemical Society</i> , 2011, 8, S34-S43.	2.2	20
98	The facile assembly of bis-, tris- and poly(triazaphosphole) systems using click chemistry. <i>Dalton Transactions</i> , 2013, 42, 7775.	3.3	20
99	Functional Porphyrinic Metal–Organic Framework as a New Class of Heterogeneous Halogen–Bond Donor Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24312-24317.	13.8	20
100	New Family of Ferric Spin Clusters Incorporating Redox-Active <i>ortho</i> -Dioxolene Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 7765-7781.	4.0	19
101	Fabrication and Applications of Potentiometric Sensors Based on <i>p</i> -tert-butylthiacalix[4]arene Comprising Two Triazole Rings Ionophore for Silver Ion Detection. <i>International Journal of Electrochemical Science</i> , 2016, , 4729-4742.	1.3	19
102	Crystalline and porous CoSe dendrimeric architectures for efficient oxygen evolution reaction. <i>Fuel</i> , 2022, 323, 124324.	6.4	19
103	Silver/gold core/shell nanowire monolayer on a QCM microsensor for enhanced mercury detection. <i>RSC Advances</i> , 2015, 5, 92303-92311.	3.6	18
104	Highly sensitive determination of atropine using cobalt oxide nanostructures: Influence of functional groups on the signal sensitivity. <i>Analytica Chimica Acta</i> , 2016, 948, 30-39.	5.4	18
105	CoCr <sub>7</sub> C <sub>3</sub> -like nanorods embedded on carbon nanofibers as effective electrocatalyst for methanol electro-oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9943-9953.	7.1	18
106	Microporous Cyclen-Based Octacarboxylate Hydrogen-Bonded Organic Framework Exhibiting Selective Gas Adsorption. <i>Crystal Growth and Design</i> , 2019, 19, 6377-6380.	3.0	18
107	Heterotrimetallic Ru(II)/Pd(II)/Ru(II) complexes: Synthesis, crystal structure, spectral characterization, DFT calculation and antimicrobial study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 273-282.	3.9	17
108	Cobalt nanoparticles incorporated into hollow doped porous carbon capsules as a highly efficient oxygen reduction electrocatalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 5244-5250.	4.1	17

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109	Mechanical and thermoelectric properties of FeVSb-based half-Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161308.	5.5	17
110	Electrochemistry of the bis(1,4,7-triazacyclodecane) cobalt(III) complex and its role in the catalytic reduction of hydrogen. <i>Polyhedron</i> , 1998, 17, 4535-4541.	2.2	16
111	A systematic study of the variation of tetrathiafulvalene (TTF), TTF <sup>+</sup> and TTF <sup>2+</sup> reaction pathways with water in the presence and absence of light. <i>RSC Advances</i> , 2014, 4, 49789-49795.	3.6	16
112	An amperometric sensitive dopamine biosensor based on novel copper oxide nanostructures. <i>Microsystem Technologies</i> , 2017, 23, 1229-1235.	2.0	16
113	Fabrication of Highly Sensitive and Selective Electrochemical Sensors for Detection of Paracetamol by Using Piroxicam Stabilized Gold Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2017, 164, B427-B434.	2.9	16
114	Enzymes and phytochemicals from neem extract robustly tuned the photocatalytic activity of ZnO for the degradation of malachite green (MG) in aqueous media. <i>Research on Chemical Intermediates</i> , 2021, 47, 1581-1599.	2.7	16
115	Strongly Anisotropic Strain-Tunability of Excitons in Exfoliated ZrSe <sub>3</sub> . <i>Advanced Materials</i> , 2022, 34, e2103571.	21.0	16
116	Ni Nanoparticles Embedded Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> -MXene Nanoarchitectures for Electrochemical Sensing of Methylmalonic Acid. <i>Biosensors</i> , 2022, 12, 231.	4.7	16
117	Electrochemical Synthesis and Characterization of Semiconducting Ni(TCNQF <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> (TCNQF <sub>4</sub> = Tj ETQq1 1 0.784314 rgBT /Over 2012, 2889-2897.	2.0	15
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