Two-Dimensional Metal Nanomaterials: Synthesis, Prop

Chemical Reviews 118, 6409-6455

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Citation Report

#	Article	IF	CITATIONS
1	DNA-Stabilized Silver Nanoclusters for Label-Free Fluorescence Imaging of Cell Surface Glycans and Fluorescence Guided Photothermal Therapy. Analytical Chemistry, 2018, 90, 14368-14375.	3.2	76
2	Simulating Powder X-ray Diffraction Patterns of Two-Dimensional Materials. Inorganic Chemistry, 2018, 57, 15123-15132.	1.9	36
3	Gold nanoparticle layer: a versatile nanostructured platform for biomedical applications. Materials Chemistry Frontiers, 2018, 2, 2175-2190.	3.2	36
4	Beyond ideal two-dimensional metals: Edges, vacancies, and polarizabilities. Physical Review B, 2018, 98,	1.1	13
5	Control of Water Content for Enhancing the Quality of Copper Paddle-Wheel-Based Metal–Organic Framework Thin Films Grown by Layer-by-Layer Liquid-Phase Epitaxy. Crystal Growth and Design, 2018, 18, 7451-7459.	1.4	16
6	Decoration of Cisplatin on 2D Metal–Organic Frameworks for Enhanced Anticancer Effects through Highly Increased Reactive Oxygen Species Generation. ACS Applied Materials & Diterfaces, 2018, 10, 30930-30935.	4.0	85
7	Trans-Scale 2D Synthesis of Millimeter-Large Au Single Crystals via Silk Fibroin Templates. ACS Sustainable Chemistry and Engineering, 2018, 6, 12419-12425.	3.2	15
8	Advanced engineering of core/shell nanostructures for electrochemical carbon dioxide reduction. Journal of Materials Chemistry A, 2019, 7, 20478-20493.	5.2	30
9	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. Chemical Society Reviews, 2019, 48, 4639-4654.	18.7	108
10	Plasmon-Mediated Synthesis of Periodic Arrays of Gold Nanoplates Using Substrate-Immobilized Seeds Lined with Planar Defects. Nano Letters, 2019, 19, 5653-5660.	4.5	50
11	A Perspective on Recent Advances in 2D Stanene Nanosheets. Advanced Materials Interfaces, 2019, 6, 1900752.	1.9	54
12	Engineering Spiny PtFePd@PtFe/Pt Core@Multishell Nanowires with Enhanced Performance for Alcohol Electrooxidation. ACS Applied Materials & Samp; Interfaces, 2019, 11, 30880-30886.	4.0	39
13	Intermediate Modulation on Noble Metal Hybridized to 2D Metal-Organic Framework for Accelerated Water Electrocatalysis. CheM, 2019, 5, 2429-2441.	5.8	150
14	Low temperature functionalization of two-dimensional boron nitride for electrochemical sensing. Materials Research Express, 2019, 6, 095076.	0.8	12
15	A facile alkali metal hydroxide-assisted controlled and targeted synthesis of 1T MoS <sub>2</sub> single-crystal nanosheets for lithium ion battery anodes. Nanoscale, 2019, 11, 14857-14862.	2.8	30
16	Dissolution of silver nanoparticles in colloidal consumer products: effects of particle size and capping agent. Journal of Nanoparticle Research, 2019, 21, 1-155.	0.8	24
17	Facile synthesis of ultrathin Pt–Pd nanosheets for enhanced formic acid oxidation and oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 18846-18851.	5.2	82
18	Aging amorphous/crystalline heterophase PdCu nanosheets for catalytic reactions. National Science Review, 2019, 6, 955-961.	4.6	75

#	Article	IF	CITATIONS
19	A Nearâ€Infraredâ€Controllable Artificial Metalloprotease Used for Degrading Amyloidâ€Î² Monomers and Aggregates. Chemistry - A European Journal, 2019, 25, 11852-11858.	1.7	25
20	Ag-functionalized exfoliated V2O5 nanosheets: a flexible and binder-free cathode for lithium-ion batteries. Journal of Materials Science, 2019, 54, 12713-12722.	1.7	19
21	Multifunctional two-dimensional nanocomposites for photothermal-based combined cancer therapy. Nanoscale, 2019, 11, 15685-15708.	2.8	74
22	Cell derived extracellular vesicles: from isolation to functionalization and biomedical applications. Biomaterials Science, 2019, 7, 3552-3565.	2.6	15
23	Molybdenum, Cobalt Sulfide-Modified N-, S-Doped Graphene from Low-Temperature Molecular Pyrolysis: Mutual Activation Effect for Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 19442-19452.	3.2	9
24	SnSe/MoS <sub>2</sub> van der Waals Heterostructure Junction Fieldâ€Effect Transistors with Nearly Ideal Subthreshold Slope. Advanced Materials, 2019, 31, e1902962.	11.1	49
25	Synthesis of RuNi alloy nanostructures composed of multilayered nanosheets for highly efficient electrocatalytic hydrogen evolution. Nano Energy, 2019, 66, 104173.	8.2	116
26	Interfacial synthesis of ultrathin two-dimensional 2PbCO <sub>3</sub> ·Pb(OH) <sub>2</sub> nanosheets with high enzyme mimic catalytic activity. Inorganic Chemistry Frontiers, 2019, 6, 498-503.	3.0	1
27	Integrating MXene nanosheets with cobalt-tipped carbon nanotubes for an efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 1281-1286.	5.2	181
28	Quest for p-Type Two-Dimensional Semiconductors. ACS Nano, 2019, 13, 12294-12300.	7.3	72
30	Anomalous Broadband Spectrum Photodetection in 2D Rhenium Disulfide Transistor. Advanced Optical Materials, 2019, 7, 1901115.	3.6	37
31	Fluorescence life-time imaging microscopy (FLIM) monitors tumor cell death triggered by photothermal therapy with MoS2 nanosheets. Journal of Innovative Optical Health Sciences, 2019, 12, 1940002.	0.5	7
32	Seedâ€Induced Vertical Growth of 2D Bi <sub>2</sub> O <sub>2</sub> Se Nanoplates by Chemical Vapor Transport. Advanced Functional Materials, 2019, 29, 1906639.	7.8	39
33	Phase-Change Reversible Absorption of Hydrogen Sulfide by the Superbase 1,5-Diazabicyclo[4.3.0]non-5-ene in Organic Solvents. Industrial & Digineering Chemistry Research, 2019, 58, 1701-1710.	1.8	9
34	Three-dimensional assembly of silver nanoparticles spatially confined by cellular structure of Spirulina, from nanospheres to nanosheets. Nanotechnology, 2019, 30, 495704.	1.3	7
35	The synthetic strategies of metal–organic framework membranes, films and 2D MOFs and their applications in devices. Journal of Materials Chemistry A, 2019, 7, 21004-21035.	5.2	94
36	Synergistic Chemo-Photothermal Suppression of Cancer by Melanin Decorated MoO <sub><i>x</i></sub> Nanosheets. ACS Applied Bio Materials, 2019, 2, 4356-4366.	2.3	16
37	Recent progress in two-dimensional nanomaterials: Synthesis, engineering, and applications. FlatChem, 2019, 18, 100133.	2.8	52

#	ARTICLE	IF	CITATIONS
38	High-throughput droplet microfluidic synthesis of hierarchical metal-organic framework nanosheet microcapsules. Nano Research, 2019, 12, 2736-2742.	5.8	23
39	Homo- and Heterosolvent Modifications of Hofmann-Type Flexible Two-Dimensional Layers for Colossal Interlayer Thermal Expansions. Inorganic Chemistry, 2019, 58, 12739-12747.	1.9	12
40	Competitive Seeded Growth: An Original Tool to Investigate Anisotropic Gold Nanoparticle Growth Mechanism. Journal of Physical Chemistry C, 2019, 123, 25320-25330.	1.5	7
41	Epitaxially aligned submillimeter-scale silver nanoplates grown by simple vapor transport. Nanoscale, 2019, 11, 17436-17443.	2.8	9
42	A nanocomposite constructed by intercalating iron porphyrin into layered tantalotungstate with exfoliation/self-assembly method utilized for electrocatalytic oxidation of nitrite. Functional Materials Letters, 2019, 12, 1950069.	0.7	5
43	Ultrafine bimetallic Pt–Ni nanoparticles immobilized on 3-dimensional N-doped graphene networks: a highly efficient catalyst for dehydrogenation of hydrous hydrazine. Journal of Materials Chemistry A, 2019, 7, 112-115.	5.2	50
44	Crystalline Facet-Directed Generation Engineering of Ultrathin Platinum Nanodendrites. Journal of Physical Chemistry Letters, 2019, 10, 663-671.	2.1	49
45	Gold nanoparticle surface engineering strategies and their applications in biomedicine and diagnostics. 3 Biotech, 2019, 9, 57.	1.1	106
46	Cross-double dumbbell-like Pt–Ni nanostructures with enhanced catalytic performance toward the reactions of oxygen reduction and methanol oxidation. Applied Catalysis B: Environmental, 2019, 246, 277-283.	10.8	145
47	SiO2-stabilized Bi nanoparticles: A high active and stable visible light photocatalyst. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 567, 112-120.	2.3	9
48	A new paradigm of ultrathin 2D nanomaterial adsorbents in aqueous media: graphene and GO, MoS <sub>2</sub> , MXenes, and 2D MOFs. Journal of Materials Chemistry A, 2019, 7, 16598-16621.	5.2	95
49	Encapsulation and Protection of Ultrathin Two-Dimensional Porous Organic Nanosheets within Biocompatible Metal–Organic Frameworks for Live-Cell Imaging. Chemistry of Materials, 2019, 31, 4897-4912.	3.2	23
50	A new strategy for the controllable growth of MOF@PBA architectures. Journal of Materials Chemistry A, 2019, 7, 17266-17271.	5.2	80
51	Ag plasmon resonance promoted 2D AgBr-Î-Bi2O3 nanosheets with enhanced photocatalytic ability. Journal of Alloys and Compounds, 2019, 803, 565-575.	2.8	28
52	Ultra-Thin Conductive Graphitic Carbon Nitride Assembly through van der Waals Epitaxy toward High-Energy-Density Flexible Supercapacitors. Nano Letters, 2019, 19, 4103-4111.	4.5	80
53	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. Advanced Materials, 2019, 31, e1902606.	11.1	84
54	A Phthalocyanineâ€Based Layered Twoâ€Dimensional Conjugated Metal–Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie, 2019, 131, 10787-10792.	1.6	58
55	A Phthalocyanineâ€Based Layered Twoâ€Dimensional Conjugated Metal–Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 10677-10682.	7.2	278

#	ARTICLE	IF	Citations
56	Synthesis, characterization and antibacterial study of Ag doped magnesium ferrite nanocomposite. Heliyon, 2019, 5, e01760.	1.4	38
58	Enhancing bioelectricity generation in microbial fuel cells and biophotovoltaics using nanomaterials. Nano Research, 2019, 12, 2184-2199.	5.8	51
59	Modulating the electronic structure of ultrathin layered double hydroxide nanosheets with fluorine: an efficient electrocatalyst for the oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 14483-14488.	5.2	73
60	Green synthesis derived Pt-nanoparticles using Xanthium strumarium leaf extract and their biological studies. Journal of Environmental Chemical Engineering, 2019, 7, 103146.	3.3	79
61	Layered photochromic films stacked from spiropyran-modified montmorillonite nanosheets. RSC Advances, 2019, 9, 12325-12330.	1.7	18
62	Engineering one-dimensional and hierarchical PtFe alloy assemblies towards durable methanol electrooxidation. Journal of Materials Chemistry A, 2019, 7, 13090-13095.	5.2	56
63	A Versatile Strategy for Tailoring Noble Metal Supramolecular Gels/Aerogels and Their Application in Hydrogen Evolution. ACS Applied Nano Materials, 2019, 2, 3012-3020.	2.4	8
64	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. Nano Letters, 2019, 19, 3730-3736.	4.5	44
65	Dielectric screening by 2D substrates. 2D Materials, 2019, 6, 035036.	2.0	32
66	Nanomechanics of low-dimensional materials for functional applications. Nanoscale Horizons, 2019, 4, 781-788.	4.1	29
67	One-pot aqueous synthesis of ultrathin trimetallic PdPtCu nanosheets for the electrooxidation of alcohols. Green Chemistry, 2019, 21, 2367-2374.	4.6	68
68	Two-dimensional amorphous nanomaterials: synthesis and applications. 2D Materials, 2019, 6, 032002.	2.0	69
69	Enhanced soot oxidation activity over CuO/CeO <sub>2</sub> mesoporous nanosheets. Catalysis Science and Technology, 2019, 9, 1699-1709.	2.1	39
70	Scalable Production of Few-Layer Niobium Disulfide Nanosheets via Electrochemical Exfoliation for Energy-Efficient Hydrogen Evolution Reaction. ACS Applied Materials & Samp; Interfaces, 2019, 11, 13205-13213.	4.0	53
72	Importance of Electrocatalyst Morphology for the Oxygen Reduction Reaction. ChemElectroChem, 2019, 6, 2600-2614.	1.7	45
73	MoS <sub>2</sub> –OH Bilayer-Mediated Growth of Inch-Sized Monolayer MoS <sub>2</sub> on Arbitrary Substrates. Journal of the American Chemical Society, 2019, 141, 5392-5401.	6.6	87
74	The development of 2D materials for electrochemical energy applications: A mechanistic approach. APL Materials, 2019, 7, .	2.2	28
<b>7</b> 5	p-Phosphonic acid calix[8]arene mediated synthesis of ultra-large, ultra-thin, single-crystal gold nanoplatelets. Chemical Communications, 2019, 55, 3785-3788.	2.2	5

#	Article	IF	CITATIONS
76	Generalized Synthesis of Uniform Metal Nanoparticles Assisted with Tungsten Hexacarbonyl. Chemistry of Materials, 2019, 31, 4325-4329.	3.2	15
77	Wet/Sonoâ€Chemical Synthesis of Enzymatic Twoâ€Dimensional MnO <sub>2</sub> Nanosheets for Synergistic Catalysisâ€Enhanced Phototheranostics. Advanced Materials, 2019, 31, e1900401.	11.1	139
78	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. Chemical Reviews, 2019, 119, 8972-9073.	23.0	240
79	Polymorphic layered copper phosphonates: exfoliation and proton conductivity studies. Dalton Transactions, 2019, 48, 6539-6545.	1.6	15
80	Superior liquid fuel oxidation electrocatalysis enabled by novel bimetallic PtNi nanorods. Journal of Power Sources, 2019, 425, 179-185.	4.0	26
81	Functionalized Nanomaterial Assembling and Biosynthesis Using the Extremophile <i>Deinococcus radiodurans</i> for Multifunctional Applications. Small, 2019, 15, e1900600.	5.2	20
82	Metal chalcogenide complex as surface exchanger in quantum dot-sensitized solar cells, recombination limited efficiency. Chemical Physics Letters, 2019, 723, 170-174.	1.2	8
83	Phase Modulating of Cu–Ni Nanowires Enables Active and Stable Electrocatalysts for the Methanol Oxidation Reaction. Chemistry - A European Journal, 2019, 25, 7218-7224.	1.7	21
84	2D–Organic Hybrid Heterostructures for Optoelectronic Applications. Advanced Materials, 2019, 31, e1803831.	11.1	86
85	Engineered Recombinant Proteins for Aqueous Ultrasonic Exfoliation and Dispersion of Biofunctionalized 2D Materials. Chemistry - A European Journal, 2019, 25, 7991-7997.	1.7	6
86	Functional Nonâ€Volatile Memory Devices: From Fundamentals to Photoâ€Tunable Properties. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800644.	1.2	28
87	Photochemical Synthesis of Nanosheet Tin Di/Sulfide with Sunlight Response on Water Pollutant Degradation. Nanomaterials, 2019, 9, 264.	1.9	11
88	Layered double hydroxide/polyacrylamide nanocomposite hydrogels: Green preparation, rheology and application in methyl orange removal from aqueous solution. Journal of Molecular Liquids, 2019, 280, 128-134.	2.3	31
89	Phase Control in Inorganic Nanocrystals through Finely Tuned Growth at an Ultrathin Scale. Accounts of Chemical Research, 2019, 52, 780-790.	7.6	27
90	<i>In situ</i> synthesis of edge-enriched MoS <sub>2</sub> hierarchical nanorods with 1T/2H hybrid phases for highly efficient electrocatalytic hydrogen evolution. CrystEngComm, 2019, 21, 1984-1991.	1.3	29
91	Fabriction of ZnO Nanorods with Strong UV Absorption and Different Hydrophobicity on Foamed Nickel under Different Hydrothermal Conditions. Micromachines, 2019, 10, 164.	1.4	38
92	Solution-phase synthesis of two-dimensional silica nanosheets using soft templates and their applications in CO <sub>2</sub> capture. Nanoscale, 2019, 11, 5365-5376.	2.8	23
93	Two-dimensional cancer theranostic nanomaterials: Synthesis, surface functionalization and applications in photothermal therapy. Journal of Controlled Release, 2019, 299, 1-20.	4.8	142

#	Article	IF	CITATIONS
94	3D architectures with Co $<$ sub $>$ 2 $<$ /sub $>$ (OH) $<$ sub $>$ 2 $<$ /sub $>$ CO $<$ sub $>$ 3 $<$ /sub $>$ nanowires wrapped by reduced graphene oxide as superior rate anode materials for Li-ion batteries. Nanoscale, 2019, 11, 21180-21187.	2.8	25
95	Two-dimensional group-VA nanomaterials beyond black phosphorus: synthetic methods, properties, functional nanostructures and applications. Journal of Materials Chemistry A, 2019, 7, 25712-25771.	5.2	49
96	Janus electrochemical exfoliation of two-dimensional materials. Journal of Materials Chemistry A, 2019, 7, 25691-25711.	5.2	41
97	2D Atomically Thin Electrocatalysts: From Graphene to Metallene. Matter, 2019, 1, 1454-1455.	5.0	17
98	Synthesis of PdM (M = Zn, Cd, ZnCd) Nanosheets with an Unconventional Face-Centered Tetragonal Phase as Highly Efficient Electrocatalysts for Ethanol Oxidation. ACS Nano, 2019, 13, 14329-14336.	7.3	133
99	Transformation of Atomically Precise Nanoclusters by Ligand-Exchange. Chemistry of Materials, 2019, 31, 9939-9969.	3.2	130
100	Exonuclease III-Regulated Target Cyclic Amplification-Based Single Nucleotide Polymorphism Detection Using Ultrathin Ternary Chalcogenide Nanosheets. Frontiers in Chemistry, 2019, 7, 844.	1.8	2
101	Stability limits of elemental 2D metals in graphene pores. Nanoscale, 2019, 11, 22019-22024.	2.8	27
102	Fabrication of highly fluorescent multiple Fe3O4 nanoparticles core-silica shell nanoparticles. Journal of Nanoparticle Research, 2019, 21, .	0.8	48
103	Mechanochemically modified hydrazine reduction method for the synthesis of nickel nanoparticles and their catalytic activities in the Suzuki–Miyaura cross-coupling reaction. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 857-868.	0.8	8
104	Colloidally Stable Monolayer Nanosheets with Colorimetric Responses. Small, 2019, 15, e1804975.	5.2	38
105	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. Chemical Reviews, 2019, 119, 478-598.	23.0	521
106	Dual Tuning of Ultrathin $\hat{l}$ ±-Co(OH) <sub>2</sub> Nanosheets by Solvent Engineering and Coordination Competition for Efficient Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 3527-3535.	3.2	56
107	Two-dimensional circular platinum nanodendrites toward efficient oxygen reduction reaction and methanol oxidation reaction. Electrochemistry Communications, 2019, 98, 53-57.	2.3	17
108	Electronic and magnetic behaviour of 2D metal structures of Y on Li(1 1 0) surface. Applied Surface Science, 2019, 471, 1005-1010.	3.1	4
109	Near-Infrared Light-Activated CuFeSe <sub>2</sub> Hierarchical Nanostructures: Synthesis, Characterization, and Growth Mechanism. Crystal Growth and Design, 2019, 19, 1226-1232.	1.4	9
110	Recent Progress in Two-Dimensional Nanomaterials for Laser Protection. Chemistry, 2019, 1, 17-43.	0.9	22
111	Facile Strategy To Prepare Rh Nanosheet-Supported PtRh Nanoparticles with Synergistically Enhanced Catalysis in Oxidation. Chemistry of Materials, 2019, 31, 808-818.	3.2	21

#	ARTICLE	IF	CITATIONS
112	Probing interlayer interactions in WSe2-graphene heterostructures by ultralow-frequency Raman spectroscopy. Frontiers of Physics, 2019, 14, 1.	2.4	16
113	Ultrathin 2D Rareâ€Earth Nanomaterials: Compositions, Syntheses, and Applications. Advanced Materials, 2020, 32, e1806461.	11.1	92
114	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. Advanced Energy Materials, 2020, 10, 1900486.	10.2	123
115	Pd-ZIF-L-GO ternary nanolaminates for enhanced heterogeneous catalysis. 2D Materials, 2020, 7, 015001.	2.0	4
116	2D Electrocatalysts for Converting Earthâ€Abundant Simple Molecules into Valueâ€Added Commodity Chemicals: Recent Progress and Perspectives. Advanced Materials, 2020, 32, e1904870.	11.1	76
117	Self-limiting interactions in 2D–0D systems: A case study of graphene oxide and 12-tungstophosphoric acid nanocomposite. Carbon, 2020, 156, 166-178.	<b>5.</b> 4	8
118	Twoâ€Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. ChemSusChem, 2020, 13, 59-77.	3.6	31
119	2D Layered Double Hydroxide Nanoparticles: Recent Progress toward Preclinical/Clinical Nanomedicine. Small Methods, 2020, 4, 1900343.	4.6	100
120	Freeâ€Standing 2D Nanoassemblies. Advanced Functional Materials, 2020, 30, 1902301.	7.8	45
121	2D Nanomaterials for Cancer Theranostic Applications. Advanced Materials, 2020, 32, e1902333.	11.1	375
122	Recent Advances in Multifunctional Graphitic Nanocapsules for Raman Detection, Imaging, and Therapy. Small Methods, 2020, 4, 1900440.	4.6	13
123	Recent Advances in Two-dimensional Materials for Electrochemical Energy Storage and Conversion. Chemical Research in Chinese Universities, 2020, 36, 10-23.	1.3	41
124	Molecular insights into the microstructure of ethanol/water binary mixtures confined within typical 2D nanoslits: The role of the adsorbed layers induced by different solid surfaces. Fluid Phase Equilibria, 2020, 509, 112452.	1.4	10
125	Effects of a graphene substrate on the structure and properties of atomically thin metal sheets. Physical Chemistry Chemical Physics, 2020, 22, 667-673.	1.3	6
126	Fabrication of liquid–liquid self-assembled Ag arrays on disposable screen-printed electrodes and their application in the identification and analysis of the adsorption behavior of organic carboxylates through ⟨i⟩in situ⟨ i⟩ electrochemical surface-enhanced Raman scattering. New Journal of Chemistry, 2020, 44, 1777-1784.	1.4	5
127	Reviewâ€"Recent Advances in Nanostructured Graphitic Carbon Nitride as a Sensing Material for Heavy Metal Ions. Journal of the Electrochemical Society, 2020, 167, 037519.	1.3	57
128	Fabrication of novel MXene (Ti <sub>3</sub> C <sub>2</sub> )/polyacrylamide nanocomposite hydrogels with enhanced mechanical and drug release properties. Soft Matter, 2020, 16, 162-169.	1.2	83
129	Bioâ€Assisted Tailored Synthesis of Plasmonic Silver Nanorings and Siteâ€Selective Deposition on Graphene Arrays. Advanced Optical Materials, 2020, 8, 1901583.	3.6	18

#	ARTICLE	IF	CITATIONS
130	Combining N,S-Codoped C and CeO <sub>2</sub> : A Unique Hinge-like Structure for Efficient Photocatalytic Hydrogen Evolution. Inorganic Chemistry, 2020, 59, 937-942.	1.9	33
131	Graphene Oxideâ€Templated Conductive and Redoxâ€Active Nanosheets Incorporated Hydrogels for Adhesive Bioelectronics. Advanced Functional Materials, 2020, 30, 1907678.	7.8	225
132	Ultrathin Pd-based nanosheets: syntheses, properties and applications. Nanoscale, 2020, 12, 4219-4237.	2.8	49
133	Graphdiyne for crucial gas involved catalytic reactions in energy conversion applications. Energy and Environmental Science, 2020, 13, 1326-1346.	15.6	115
134	2D Ti3C2 as electron harvester anchors on 2D g-C3N4 to create boundary edge active sites for boosting photocatalytic performance. Applied Catalysis A: General, 2020, 590, 117367.	2.2	75
135	A review on 2D transition metal di-chalcogenides and metal oxide nanostructures based NO2 gas sensors. Materials Science in Semiconductor Processing, 2020, 107, 104865.	1.9	110
136	One-step synthesis of magnetic recoverable Ag2S/Fe3O4/MoS2 nanocomposites for enhanced visible light photocatalysis. Journal of Materials Science: Materials in Electronics, 2020, 31, 1047-1056.	1.1	4
137	Application of carbon nanomaterials in human virus detection. Journal of Science: Advanced Materials and Devices, 2020, 5, 436-450.	1.5	30
138	Multicomponent Transition Metal Dichalcogenide Nanosheets for Imagingâ€Guided Photothermal and Chemodynamic Therapy. Advanced Science, 2020, 7, 2000272.	5.6	86
139	Low-Cost Scalable Production of Freestanding Two-Dimensional Metallic Nanosheets by Polymer Surface Buckling Enabled Exfoliation. Cell Reports Physical Science, 2020, 1, 100235.	2.8	14
140	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. Journal of the American Chemical Society, 2020, 142, 18971-18980.	6.6	111
141	Size-Tunable Continuous-Seed-Mediated Growth of Silver Nanoparticles in Alkylamine Mixture via the Stepwise Thermal Decomposition of Silver Oxalate. Chemistry of Materials, 2020, 32, 9363-9370.	3.2	10
142	Symmetry Breaking Induced by Growth Kinetics: Oneâ€Pot Synthesis of Janus Auâ^'AgBr Nanoparticles. ChemNanoMat, 2020, 6, 1485-1495.	1.5	5
143	Cascade Reactions Catalyzed by Planar Metal–Organic Framework Hybrid Architecture for Combined Cancer Therapy. Small, 2020, 16, e2004016.	5.2	64
144	Evaluation of biosynthesis parameters, stability and biological activities of silver nanoparticles synthesized by <i>Cornus Officinalis</i> extract under 365 nm UV radiation. RSC Advances, 2020, 10, 27173-27182.	1.7	17
145	Facile preparation of reduced graphene oxide wrapped copper oxide thin film solar selective absorbers. Ceramics International, 2020, 46, 27897-27902.	2.3	8
146	Facile synthesis of CuCo spinel composite oxides for toluene oxidation in air. Ceramics International, 2020, 46, 21542-21550.	2.3	21
147	2D metallic tungsten material. Applied Surface Science, 2020, 530, 147231.	3.1	4

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148	Insight into the electrocatalytic performance of in-situ fabricated electroactive biofilm-Pd: The role of biofilm thickness, initial Pd(II) concentration and the exposure time to Pd precursor. Science of the Total Environment, 2020, 742, 140536.	3.9	2
149	Two-dimensional Noble Metal Nanomaterials for Electrocatalysis. Chemical Research in Chinese Universities, 2020, 36, 597-610.	1.3	11
150	Oriented attachment mechanism of triangular Ag nanoplates: a molecular dynamics study. Nanoscale Advances, 2020, 2, 2265-2270.	2.2	19
151	Uniform palladium nanosheets for fluorimetric detection of circulating tumor DNA. Analytica Chimica Acta, 2020, 1139, 164-168.	2.6	17
152	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. Nanoscale, 2020, 12, 23391-23423.	2.8	47
153	A Systematic Study of the One-Pot Fabrication of Anisotropic Silver Nanoplates with Controllable Size and Shape for SERS Amplification. Plasmonics, 2020, 15, 2185-2194.	1.8	7
154	Fe(â¢)-Oxidized Graphitic Carbon Nitride Nanosheets as a Sensitive Fluorescent Sensor for Detection and Imaging of Fluoride Ions. Sensors and Actuators B: Chemical, 2020, 321, 128630.	4.0	14
155	A universal nanoreactor strategy for scalable supported ultrafine bimetallic nanoparticles synthesis. Materials Today, 2020, 40, 72-81.	8.3	20
156	Metallenes: Recent Advances and Opportunities in Energy Storage and Conversion Applications. , 2020, 2, 1148-1172.		64
157	Highly efficient and stable photocatalytic properties of CdS/FeS nanocomposites. New Journal of Chemistry, 2020, 44, 14695-14702.	1.4	5
158	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO <sub>2</sub> Reduction. Angewandte Chemie, 2020, 132, 21677-21682.	1.6	37
159	Carbon nanomaterials for salivary-based biosensors: a review. Materials Today Chemistry, 2020, 17, 100342.	1.7	33
160	Ligandâ€Free Yolkâ€Shell Nanoparticles: Synthesis and Catalytic Applications. ChemNanoMat, 2020, 6, 1449-1473.	1.5	5
161	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO <sub>2</sub> Reduction. Angewandte Chemie - International Edition, 2020, 59, 21493-21498.	7.2	97
162	Holey Pt Nanosheets on NiFe-Hydroxide Laminates: Synergistically Enhanced Electrocatalytic 2D Interface toward Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 10578-10588.	7.3	66
163	Topographical and compositional engineering of core–shell Ni@Pt ORR electro-catalysts. RSC Advances, 2020, 10, 29268-29277.	1.7	11
164	Machine learning-guided synthesis of advanced inorganic materials. Materials Today, 2020, 41, 72-80.	8.3	70
165	Water permeation pathways in laminated organic single-crystal devices. AIP Advances, 2020, 10, 075312.	0.6	1

#	Article	IF	CITATIONS
166	Continuous preparation of antimony nanocrystals with near infrared photothermal property by pulsed laser ablation in liquids. Scientific Reports, 2020, 10, 15095.	1.6	9
167	Assembly of Bimetallic PdAg Nanosheets and Their Enhanced Electrocatalytic Activity toward Ethanol Oxidation. Langmuir, 2020, 36, 11094-11101.	1.6	56
168	Smart Acidâ€Activatable Selfâ€Assembly of Black Phosphorous as Photosensitizer to Overcome Poor Tumor Retention in Photothermal Therapy. Advanced Functional Materials, 2020, 30, 2003338.	7.8	25
169	Integrated graphene quantum dot decorated functionalized nanosheet biosensor for mycotoxin detection. Analytical and Bioanalytical Chemistry, 2020, 412, 7029-7041.	1.9	28
170	Synthesis of Twoâ€dimensional Metallic Nanosheets: From Elemental Metals to Chemically Complex Alloys. ChemNanoMat, 2020, 6, 1683-1711.	1.5	18
171	Lowâ€Dimensional Metallic Nanomaterials for Advanced Electrocatalysis. Advanced Functional Materials, 2020, 30, 2006317.	7.8	140
172	Synthesis of silver nanoplates on electrospun fibers via tollens reaction for SERS sensing of pesticide residues. Mikrochimica Acta, 2020, 187, 560.	2.5	13
173	Atmospheric-Pressure Pulsed Discharge Plasma in a Slug Flow Reactor System for the Synthesis of Gold Nanoparticles. ACS Omega, 2020, 5, 17679-17685.	1.6	6
174	In Situ Growth of Core–Shell Heterostructure CoMoO <sub>4</sub> Meshes as Advanced Electrodes for High-Performance Supercapacitors. Energy & Description (16791-16799).	2.5	20
175	Two-Dimensional Nanomaterials With Enzyme-Like Properties for Biomedical Applications. Frontiers in Chemistry, 2020, 8, 565940.	1.8	33
176	Modeling of Mechanical Properties of Clay-Reinforced Polymer Nanocomposites Using Deep Neural Network. Materials, 2020, 13, 4266.	1.3	14
177	Two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CP</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> monolayer and its fluorinated derivative with promising electronic and optical properties: A theoretical study. Physical Review B. 2020. 101.	1.1	27
178	Metal–Organic Layers Leading to Atomically Thin Bismuthene for Efficient Carbon Dioxide Electroreduction to Liquid Fuel. Angewandte Chemie, 2020, 132, 15124-15130.	1.6	57
179	Metal–Organic Layers Leading to Atomically Thin Bismuthene for Efficient Carbon Dioxide Electroreduction to Liquid Fuel. Angewandte Chemie - International Edition, 2020, 59, 15014-15020.	7.2	276
180	High-Index Core–Shell Ni–Pt Nanoparticles as Oxygen Reduction Electrocatalysts. ACS Applied Nano Materials, 2020, 3, 5718-5731.	2.4	17
181	Large-area synthesis of a semiconducting silver monolayer via intercalation of epitaxial graphene. Physical Review B, 2020, 101, .	1.1	21
182	Versatile Synthesis of Pdâ^'M (M=Cr, Mo, W) Alloy Nanosheets Flowerâ€like Superstructures for Efficient Oxygen Reduction Electrocatalysis. ChemCatChem, 2020, 12, 4138-4148.	1.8	14
183	A size-controlled green synthesis of silver nanoparticles by using the berry extract of <i>Sea Buckthorn</i> and their biological activities. New Journal of Chemistry, 2020, 44, 9304-9312.	1.4	64

#	Article	IF	CITATIONS
184	Engineering the electronic structure of 1T′-ReS <sub>2</sub> through nitrogen implantation for enhanced alkaline hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 11607-11616.	5.2	39
185	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. Nano Research, 2020, 13, 1970-1975.	5.8	32
186	Two-step synthesis of Ag-decorated MoO3 nanotubes, and the effect of hydrogen doping. Applied Surface Science, 2020, 527, 146675.	3.1	21
187	Edge Enrichment of Ultrathin 2D PdPtCu Trimetallic Nanostructures Effectuates Top-Ranked Ethanol Electrooxidation. Nano Letters, 2020, 20, 5458-5464.	4.5	90
188	Bimetallenes for selective electrocatalytic conversion of CO <sub>2</sub> : a first-principles study. Journal of Materials Chemistry A, 2020, 8, 12457-12462.	5.2	14
189	Two-Dimensional Nanomaterials with Unconventional Phases. CheM, 2020, 6, 1237-1253.	5.8	93
190	Semiconductor to metal transition in two-dimensional gold and its van der Waals heterostack with graphene. Nature Communications, 2020, $11$ , 2236.	5.8	52
191	Highly improved soot combustion performance over synergetic MnxCe1â^'xO2 solid solutions within mesoporous nanosheets. Journal of Colloid and Interface Science, 2020, 577, 355-367.	5.0	40
192	Extraction of Two-Dimensional Aluminum Alloys from Decagonal Quasicrystals. ACS Nano, 2020, 14, 7435-7443.	7.3	19
193	Atom Classification Model for Total Energy Evaluation of Two-Dimensional Multicomponent Materials. Journal of Physical Chemistry A, 2020, 124, 4506-4511.	1.1	13
194	A fungal based synthesis method for copper nanoparticles with the determination of anticancer, antidiabetic and antibacterial activities. Journal of Microbiological Methods, 2020, 174, 105966.	0.7	82
195	Core-Shell and Yolk-Shell Covalent Organic Framework Nanostructures with Size-Selective Permeability. Cell Reports Physical Science, 2020, 1, 100062.	2.8	28
196	Denaturant-Mediated Modulation of the Formation and Drug Encapsulation Responses of Gold Nanoparticles. Langmuir, 2020, 36, 7634-7647.	1.6	5
197	Experimental and Modeling Studies of 2D Clay/PE Nanocomposites for High Voltage Applications. ECS Journal of Solid State Science and Technology, 2020, 9, 093002.	0.9	4
198	Preparation of Ni1 â^' xFex nanoparticles with a composition gradient and a proposed formation mechanism. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	1
199	Organic small molecule-based RRAM for data storage and neuromorphic computing. Journal of Materials Chemistry C, 2020, 8, 12714-12738.	2.7	76
200	Atomic Thickness Catalysts: Synthesis and Applications. Small Methods, 2020, 4, 2000248.	4.6	32
201	Largeâ€Scale Fast Fluid Dynamic Processes for the Syntheses of 2D Nanohybrids of Metal Nanoparticleâ€Deposited Boron Nitride Nanosheet and Their Glycolysis of Poly(ethylene terephthalate). Advanced Materials Interfaces, 2020, 7, 2000599.	1.9	11

#	Article	IF	CITATIONS
202	2D Boron Imidazolate Framework Nanosheets with Electrocatalytic Applications for Oxygen Evolution and Carbon Dioxide Reduction Reaction. Small, 2020, 16, e1907669.	5.2	20
203	Crystal-phase and surface-structure engineering of ruthenium nanocrystals. Nature Reviews Materials, 2020, 5, 440-459.	23.3	118
204	Future prospects and commercial viability of two-dimensional nanostructures for biomedical technology., 2020,, 281-302.		3
205	Recent developments of two-dimensional graphene-based composites in visible-light photocatalysis for eliminating persistent organic pollutants from wastewater. Chemical Engineering Journal, 2020, 390, 124642.	6.6	186
206	Unprecedented Surface Plasmon Modes in Monoclinic MoO <sub>2</sub> Nanostructures. Advanced Materials, 2020, 32, e1908392.	11.1	28
207	Accurate and Real-Time Temperature Monitoring during MR Imaging Guided PTT. Nano Letters, 2020, 20, 2522-2529.	4.5	56
208	Integration of a porous coordination network and black phosphorus nanosheets for improved photodynamic therapy of tumor. Nanoscale, 2020, 12, 8890-8897.	2.8	11
209	Ultrathin ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets Anchored on Ti <sub>3</sub> C <sub>2</sub> T <sub>i&gt;XEvolution. Angewandte Chemie - International Edition, 2020, 59, 11287-11292.</sub>	7.2	416
210	Insights into the binding mechanism of 2D copper-tetrakis-(4-carboxyphenyl)-porphyrin metal-organic framework nanosheets with Rhodamine B: Spectroscopic and thermodynamics studies. Chemical Physics, 2020, 534, 110743.	0.9	13
211	Recent Advances in Atomicâ€Level Engineering of Nanostructured Catalysts for Electrochemical CO <sub>2</sub> Reduction. Advanced Functional Materials, 2020, 30, 1910534.	7.8	100
212	The controlled large-area synthesis of two dimensional metals. Materials Today, 2020, 36, 30-39.	8.3	23
213	Twoâ€Dimensional MOF and COF Nanosheets: Synthesis and Applications in Electrochemistry. Chemistry - A European Journal, 2020, 26, 6402-6422.	1.7	168
214	Two-Dimensional Theranostic Nanomaterials in Cancer Treatment: State of the Art and Perspectives. Cancers, 2020, 12, 1657.	1.7	15
215	A New Scalable Preparation of Metal Nanosheets: Potential Applications for Aqueous Zn″on Batteries Anode. Advanced Functional Materials, 2020, 30, 2003187.	7.8	46
216	OD/2D Co3O4/TiO2 Z-Scheme heterojunction for boosted photocatalytic degradation and mechanism investigation. Applied Catalysis B: Environmental, 2020, 278, 119298.	10.8	256
217	Anchoring Au nanoparticles on Bi ultrathin nanosheets for use as an efficient heterogeneous catalyst for ambient-condition electrochemical ammonia synthesis. Sustainable Energy and Fuels, 2020, 4, 4516-4521.	2.5	12
218	Hybrid nanocomposites and their potential applications in the field of nanosensors/gas and biosensors. , 2020, , 253-280.		11
219	Heterophase fcc-2H-fcc gold nanorods. Nature Communications, 2020, 11, 3293.	5.8	92

#	Article	IF	Citations
220	Bimetallic Cu/Pt Oxygen Reduction Reaction Catalyst for Fuel Cells Cathode Materials. Catalysts, 2020, 10, 667.	1.6	13
221	Free-standing 2D metals from binary metal alloys. AIP Advances, 2020, 10, 065327.	0.6	12
222	Stability and synthesis of 2D metals and alloys: a review. Materials Today Advances, 2020, 8, 100092.	2.5	43
223	Deepâ€Learningâ€Enabled MXeneâ€Based Artificial Throat: Toward Sound Detection and Speech Recognition. Advanced Materials Technologies, 2020, 5, 2000262.	3.0	45
224	Epitaxial Growth of Flat, Metallic Monolayer Phosphorene on Metal Oxide. ACS Nano, 2020, 14, 2385-2394.	7.3	27
225	Largeâ€Size, Porous, Ultrathin NiCoP Nanosheets for Efficient Electro/Photocatalytic Water Splitting. Advanced Functional Materials, 2020, 30, 1910830.	7.8	134
226	A Simple Drop-and-Dry Approach to Grass-Like Multifunctional Nanocoating on Flexible Cotton Fabrics Using In Situ-Generated Coating Solution Comprising Titanium-Oxo Clusters and Silver Nanoparticles. ACS Applied Materials & Samp; Interfaces, 2020, 12, 12093-12100.	4.0	19
227	Zero-Dimensional/Two-Dimensional Au <sub><i>x</i></sub> Pd <sub>100–<i>x</i></sub> Nanocomposites with Enhanced Nanozyme Catalysis for Sensitive Glucose Detection. ACS Applied Materials & Detection and Sensitive Clucose Detection. ACS Applied	4.0	81
228	Universal Surfactantâ€Free Strategy for Selfâ€Standing 3D Tremellaâ€Like Pd–M (M = Ag, Pb, and Au) Nanosheets for Superior Alcohols Electrocatalysis. Advanced Functional Materials, 2020, 30, 2000255.	7.8	191
229	Meyer-Rod Coated 2D Single-Crystalline Copper Nanoplate Film with Intensive Pulsed Light for Flexible Electrode. Coatings, 2020, 10, 88.	1.2	3
230	Approaching Highâ€Performance Supercapacitors via Enhancing Pseudocapacitive Nickel Oxideâ€Based Materials. Advanced Sustainable Systems, 2020, 4, 1900137.	2.7	49
231	Super-fast degradation of high concentration methyl orange over bifunctional catalyst Fe/Fe3C@C with microwave irradiation. Journal of Hazardous Materials, 2020, 392, 122279.	6.5	47
232	Bioavailability and translocation of metal oxide nanoparticles in the soil-rice plant system. Science of the Total Environment, 2020, 713, 136662.	3.9	64
233	Rational design, synthesis, adsorption principles and applications of metal oxide adsorbents: a review. Nanoscale, 2020, 12, 4790-4815.	2.8	269
234	Nanozymology. Nanostructure Science and Technology, 2020, , .	0.1	30
235	Largeâ€Scale Preparation of 2D Metal Films by a Topâ€Down Approach. Advanced Engineering Materials, 2020, 22, 1901359.	1.6	8
236	Ultrathin Ni(0)â€Embedded Ni(OH) <sub>2</sub> Heterostructured Nanosheets with Enhanced Electrochemical Overall Water Splitting. Advanced Materials, 2020, 32, e1906915.	11.1	259
237	Structuralâ€Phase Catalytic Redox Reactions in Energy and Environmental Applications. Advanced Materials, 2020, 32, e1905739.	11.1	56

#	Article	IF	CITATIONS
238	Hydrogen Stabilized RhPdH 2D Bimetallene Nanosheets for Efficient Alkaline Hydrogen Evolution. Journal of the American Chemical Society, 2020, 142, 3645-3651.	6.6	152
239	Preparation of indium oxide by electrospinning and its electromagnetic properties at low temperature. Journal of Magnetism and Magnetic Materials, 2020, 501, 166489.	1.0	6
240	<i>In situ</i> electrochemical reduction-assisted exfoliation: conversion of BiOCl nanoplates into Bi nanosheets enables efficient electrocatalytic nitrogen fixation. Sustainable Energy and Fuels, 2020, 4, 3334-3339.	2.5	15
241	Fabrication of oxygen-doped MoSe2 hierarchical nanosheets for highly sensitive and selective detection of trace trimethylamine at room temperature in air. Nano Research, 2020, 13, 1704-1712.	5.8	39
242	Sustainable Synthesis of Nanoscale Zerovalent Iron Particles for Environmental Remediation. ChemSusChem, 2020, 13, 3288-3305.	3.6	42
243	Recent advances in the template-confined synthesis of two-dimensional materials for aqueous energy storage devices. Nanoscale Advances, 2020, 2, 2220-2233.	2.2	23
244	$\label{likelihood} \begin{tabular}{ll} $ Ultrathin ZnIn < sub > 2 <  sub > 5 < sub > 4 <  sub > Nanosheets Anchored on $ Ti < sub > 3 <  sub > C < sub > 2 <  sub > T < sub > (i > X <  i > <  sub > MXene for Photocatalytic H < sub > 2 <  sub > Evolution. Angewandte Chemie, 2020, 132, 11383-11388. \end{tabular}$	1.6	69
245	Nanoscale materials with different dimensions for advanced electrocatalysts. , 2020, , 193-218.		0
246	Immunological Responses Induced by Blood Protein Coronas on Two-Dimensional MoS <sub>2</sub> Nanosheets. ACS Nano, 2020, 14, 5529-5542.	7.3	82
247	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. National Science Review, 2020, 7, 1340-1348.	4.6	56
248	Elastomer nanocomposites containing MXene for mechanical robustness and electrical and thermal conductivity. Nanotechnology, 2020, 31, 315715.	1.3	31
249	Intrinsic Photocatalysis of Morphology and Oxygen Vacancyâ€Tunable Ultrathin WO <sub>3</sub> Nanosheets. ChemistrySelect, 2020, 5, 4008-4016.	0.7	10
250	Applications of nano-materials in diverse dentistry regimes. RSC Advances, 2020, 10, 15430-15460.	1.7	62
251	Ligandâ€Modulated Excess Pbl <sub>2</sub> Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000865.	11.1	136
252	On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. Chemical Society Reviews, 2020, 49, 2916-2936.	18.7	68
253	Wettability of MXene and its interfacial adhesion with epoxy resin. Materials Chemistry and Physics, 2021, 257, 123820.	2.0	27
254	Biosynthesis of magnetic iron oxide nanoparticles: a review. Biotechnology Letters, 2021, 43, 1-12.	1.1	33
255	Noble-Metal Nanocrystals with Controlled Shapes for Catalytic and Electrocatalytic Applications. Chemical Reviews, 2021, 121, 649-735.	23.0	388

#	Article	IF	CITATIONS
256	Transition metal dichalcogenide-based mixed-dimensional heterostructures for visible-light-driven photocatalysis: Dimensionality and interface engineering. Nano Research, 2021, 14, 2003-2022.	5.8	61
257	Toward greener synthesis of gold nanomaterials: From biological to biomimetic synthesis. Coordination Chemistry Reviews, 2021, 426, 213540.	9.5	55
258	Structure, Preparation, and Applications of 2D Materialâ€Based Metalâ€"Semiconductor Heterostructures. Small Structures, 2021, 2, 2000093.	6.9	71
259	Effect of chiral-arrangement on the solar adsorption of black TiO2-SiO2 mesoporous materials for photodegradation and photolysis. Applied Surface Science, 2021, 537, 148025.	3.1	14
260	Layered PdW nanosheet assemblies for alcohol electrooxidation. Applied Surface Science, 2021, 537, 147860.	3.1	44
261	Nano scale zero valent iron production methods applied to contaminated sites remediation: An overview of production and environmental aspects. Journal of Hazardous Materials, 2021, 410, 124614.	6.5	25
262	Elemental 2D Materials: Progress and Perspectives Toward Unconventional Structures. Small Structures, 2021, 2, 2000101.	6.9	30
263	An efficient label-free immunosensor based on ce-MoS2/AgNR composites and screen-printed electrodes for PSA detection. Journal of Solid State Electrochemistry, 2021, 25, 973-982.	1.2	9
264	Tailored synthesis approach of (Mo <sub>2/3</sub> Y <sub>1/3</sub> ) <sub>2</sub> AlC <i>ii/i&gt;-MAX and its two-dimensional derivative Mo<sub>1.33</sub>CT<sub>z</sub> MXene: enhancing the yield, quality, and performance in supercapacitor applications. Nanoscale, 2021, 13, 311-319.</i>	2.8	22
265	Recent Advances in the Controlled Synthesis and Catalytic Applications of Two-Dimensional Rhodium Nanomaterials., 2021, 3, 121-133.		28
266	Twoâ€Dimensional Porous Molybdenum Phosphide/Nitride Heterojunction Nanosheets for pHâ€Universal Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 6673-6681.	7.2	227
267	Light–Matter Interaction in Quantum Confined 2D Polar Metals. Advanced Functional Materials, 2021, 31, 2005977.	7.8	17
268	Rechargeable aqueous zinc-ion batteries: Mechanism, design strategies and future perspectives. Materials Today, 2021, 42, 73-98.	8.3	159
269	Recent progress in structural modulation of metal nanomaterials for electrocatalytic CO2 reduction. Rare Metals, 2021, 40, 1412-1430.	3.6	61
270	Graphitic Carbon Nitride-based Chemiluminescent and Electrochemiluminescent Sensors. RSC Nanoscience and Nanotechnology, 2021, , 38-79.	0.2	0
271	Degradable and Excretable Ultrasmall Transition Metal Selenide Nanodots for Highâ€Performance Computed Tomography Bioimagingâ€Guided Photonic Tumor Nanomedicine in NIRâ€I Biowindow. Advanced Functional Materials, 2021, 31, 2008591.	7.8	23
272	Throwing light on the current developments of two-dimensional metal–organic framework nanosheets (2D MONs). Materials Advances, 2021, 2, 4914-4944.	2.6	15
273	Gold-based nanoalloys: synthetic methods and catalytic applications. Journal of Materials Chemistry A, 2021, 9, 19025-19053.	5.2	16

#	Article	IF	CITATIONS
274	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. Chemical Society Reviews, 2021, 50, 11381-11485.	18.7	129
275	Metallenes as functional materials in electrocatalysis. Chemical Society Reviews, 2021, 50, 6700-6719.	18.7	253
276	Hydrogel-assisted delivery of lipophilic molecules into aqueous medium for transdermal medication based on environment-specific, regioselective adsorption of graphene oxides. Journal of Materials Chemistry B, 2021, 9, 1804-1810.	2.9	2
277	Recent Progress of Ultrathin 2D Pdâ€Based Nanomaterials for Fuel Cell Electrocatalysis. Small, 2021, 17, e2005092.	5.2	155
278	A novel green synthesis of silver nanoparticles by the residues of Chinese herbal medicine and their biological activities. RSC Advances, 2021, 11, 1411-1419.	1.7	30
279	Functionalized Elastomers for Intrinsically Soft and Biointegrated Electronics. Advanced Healthcare Materials, 2021, 10, e2002105.	3.9	36
280	Elemental composition control of gold-titania nanocomposites by site-specific mineralization using artificial peptides and DNA. Communications Chemistry, $2021, 4, .$	2.0	28
281	Reversible photoluminescence modulation of monolayer MoS <sub>2</sub> on a ferroelectric substrate by light irradiation and thermal annealing. Physical Chemistry Chemical Physics, 2021, 23, 17265-17270.	1.3	0
282	Engineering porous architectures in multicomponent PdCuBP mesoporous nanospheres for electrocatalytic ethanol oxidation. Nano Research, 2021, 14, 3274-3281.	5.8	19
283	Mid-infrared light-emitting properties and devices based on thin-film black phosphorus. Journal of Materials Chemistry C, 2021, 9, 4418-4424.	2.7	4
284	Emerging beyond-graphene elemental 2D materials for energy and catalysis applications. Chemical Society Reviews, 2021, 50, 10983-11031.	18.7	170
285	Resolving the stacking fault structure of silver nanoplates. Nanoscale, 2021, 13, 195-205.	2.8	28
286	Gases. RSC Nanoscience and Nanotechnology, 2021, , 97-129.	0.2	1
287	2D Materials for electrochemical carbon dioxide reduction. , 2021, , 183-196.		1
288	Controllable synthesis of non-layered two-dimensional plate-like CuGaSe2 materials for optoelectronic devices. RSC Advances, 2021, 11, 3673-3680.	1.7	3
289	Chemical conversion synthesis of magnetic Fe $<$ sub $>$ 1 $\hat{a}$ ° $\times$ $<$ sub $>$ Co $<$ sub $>$ x $<$ sub $>$ alloy nanosheets with controlled composition. Chemical Communications, 2021, 57, 2309-2312.	2.2	5
290	Self-regulated catalysis for the selective synthesis of primary amines from carbonyl compounds. Green Chemistry, 2021, 23, 7115-7121.	4.6	15
291	Mechanical properties of aerospace epoxy composites reinforced with 2D nano-fillers: current status and road to industrialization. Nanoscale Advances, 2021, 3, 2741-2776.	2.2	55

#	Article	IF	CITATIONS
292	Wet-chemical synthesis of two-dimensional metal nanomaterials for electrocatalysis. National Science Review, 2022, 9, nwab142.	4.6	41
293	Synthesis of N, P dualâ€doped <scp> MoS <sub>2</sub> </scp> on hollow carbon spheres for hydrogen evolution reaction. International Journal of Energy Research, 2021, 45, 8639-8647.	2.2	10
294	Rational Component and Structure Design of Nobleâ€Metal Composites for Optical and Catalytic Applications. Small Structures, 2021, 2, 2000138.	6.9	31
295	Synaptic transistors and neuromorphic systems based on carbon nano-materials. Nanoscale, 2021, 13, 7498-7522.	2.8	28
296	Mechanistic insights and selected synthetic routes of atomically precise metal nanoclusters. Nano Select, 2021, 2, 831-846.	1.9	5
297	Biodegradable freestanding rare-earth nanosheets promote multimodal imaging and delivers CRISPR–Cas9 plasmid against tumor. Chemical Communications, 2021, 57, 9386-9389.	2.2	1
298	Large-scale visualization of the dispersion of liquid-exfoliated two-dimensional nanosheets. Chemical Communications, 2021, 57, 4303-4306.	2.2	2
299	Twoâ€Dimensional Porous Molybdenum Phosphide/Nitride Heterojunction Nanosheets for pHâ€Universal Hydrogen Evolution Reaction. Angewandte Chemie, 2021, 133, 6747-6755.	1.6	25
300	Recent Trends in Noble Metal Nanoparticles for Colorimetric Chemical Sensing and Micro-Electronic Packaging Applications. Metals, 2021, 11, 329.	1.0	20
301	A highly efficient atomically thin curved PdIr bimetallene electrocatalyst. National Science Review, 2021, 8, nwab019.	4.6	59
303	Twoâ€Dimensional Metal Telluride Atomic Crystals: Preparation, Physical Properties, and Applications. Advanced Functional Materials, 2021, 31, 2010901.	7.8	22
304	Polymer nanocomposites with aligned two-dimensional materials. Progress in Polymer Science, 2021, 114, 101360.	11.8	39
305	Synthesis of the Platinum Nanoribbons Regulated by Fluorine and Applications in Electrocatalysis. Inorganic Chemistry, 2021, 60, 4366-4370.	1.9	5
306	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. Matter, 2021, 4, 888-926.	5.0	74
307	Designing of Nanomaterials-Based Enzymatic Biosensors: Synthesis, Properties, and Applications. Electrochem, 2021, 2, 149-184.	1.7	48
308	The Adatom Concentration Profile: A Paradigm for Understanding Two-Dimensional MoS <sub>2</sub> Morphological Evolution in Chemical Vapor Deposition Growth. ACS Nano, 2021, 15, 6839-6848.	7.3	20
309	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. Small Structures, 2021, 2, 2000153.	6.9	29
310	Solution combustion synthesis of single-phase bimetallic nanomaterials. Nano Structures Nano Objects, 2021, 26, 100727.	1.9	19

#	ARTICLE	IF	CITATIONS
311	Platinumâ€Based Electrocatalysts for Direct Alcohol Fuel Cells: Enhanced Performances toward Alcohol Oxidation Reactions. ChemPlusChem, 2021, 86, 574-586.	1.3	28
312	Graphdiyne: A promising 2D all-carbon nanomaterial for sensing and biosensing. TrAC - Trends in Analytical Chemistry, 2021, 137, 116194.	5 <b>.</b> 8	21
313	Applications of two-dimensional materials in food packaging. Trends in Food Science and Technology, 2021, 110, 443-457.	7.8	27
314	Synergistically catalytic nanozymes based on heme-protein active site model for dual-signal and ultrasensitive detection of H2O2 in living cells. Sensors and Actuators B: Chemical, 2021, 333, 129564.	4.0	20
315	Chemical Insights into Interfacial Effects in Inorganic Nanomaterials. Advanced Materials, 2021, 33, e2006159.	11.1	22
316	A review on amorphous noble-metal-based electrocatalysts for fuel cells: Synthesis, characterization, performance, and future perspective. International Journal of Hydrogen Energy, 2021, 46, 14190-14211.	3.8	37
317	Facile Synthesis of Pd@PtM (M = Rh, Ni, Pd, Cu) Multimetallic Nanorings as Efficient Catalysts for Ethanol Oxidation Reaction. Frontiers in Chemistry, 2021, 9, 683450.	1.8	5
318	Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie, 2021, 133, 13596-13604.	1.6	2
319	Transformation of Freestanding Carbon-Containing Gold Nanosheets into Au Nanoparticles Encapsulated within Amorphous Carbon: Implications for Surface Modification of Complex-Shaped Materials and Structures. ACS Applied Nano Materials, 2021, 4, 5098-5105.	2.4	3
320	Application of Supra Molecular Immaterialness Adsorbent in Indoor Volatile Organic Compounds Control in Hot and Humid Areas. Integrated Ferroelectrics, 2021, 216, 231-246.	0.3	1
321	Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie - International Edition, 2021, 60, 13484-13492.	7.2	28
322	Emerging two-dimensional materials-enabled diagnosis and treatments of Alzheimer's disease: Status and future challenges. Applied Materials Today, 2021, 23, 101028.	2.3	6
323	Discontinuous yielding of pristine micro-crystals. Comptes Rendus Physique, 2021, 22, 201-248.	0.3	4
324	In-situ growth of single-crystal plasmonic aluminum–lithium-graphene nanosheets with a hexagonal platelet-like morphology using ball-milling. Carbon, 2021, 178, 657-665.	5.4	5
325	Rapid Aqueous Synthesis of Largeâ€Size and Edge/Defectâ€Rich Porous Pd and Pdâ€Alloyed Nanomesh for Electrocatalytic Ethanol Oxidation. Chemistry - A European Journal, 2021, 27, 11175-11182.	1.7	12
326	Constructing charge transfer channel between dopants and oxygen vacancies for enhanced visible-light-driven water oxidation. Nano Research, 2021, 14, 3365-3371.	5.8	24
327	Ultrathin chalcogenide nanosheets for photoacoustic imaging-guided synergistic photothermal/gas therapy. Biomaterials, 2021, 273, 120807.	5 <b>.</b> 7	42
328	Recent Advances on Properties and Utility of Nanomaterials Generated from Industrial and Biological Activities. Crystals, 2021, 11, 634.	1.0	13

#	Article	IF	CITATIONS
329	Epitaxially aligned single-crystal gold nanoplates formed in large-area arrays at high yield. Nano Research, 2022, 15, 296-303.	5.8	11
330	Modified reverse micelle method as facile way to obtain several gold nanoparticle morphologies. Journal of Molecular Liquids, 2021, 331, 115709.	2.3	7
331	Industrially promising IrNi-FeNi3 hybrid nanosheets for overall water splitting catalysis at large current density. Applied Catalysis B: Environmental, 2021, 286, 119881.	10.8	155
332	Universal strategies to multi-dimensional noble-metal-based catalysts for electrocatalysis. Coordination Chemistry Reviews, 2021, 436, 213825.	9.5	136
333	The Lightest 2D Nanomaterial: Freestanding Ultrathin Li Nanosheets by In Situ Nanoscale Electrochemistry. Small, 2021, 17, e2101641.	5.2	3
334	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. Nano-Micro Letters, 2021, 13, 156.	14.4	71
335	An Acceptor-Ï€-Donor Structured Organic Chromophore for NIR Triggered Thermal Ablation of Tumor via DNA Damage-Mediated Apoptosis. International Journal of Nanomedicine, 2021, Volume 16, 4901-4911.	3.3	4
336	Spatially Controlled Preparation of Layered Metallic–Semiconducting Metal Chalcogenide Heterostructures. ACS Nano, 2021, 15, 12171-12179.	7.3	9
337	Strain of 2D materials via substrate engineering. Chinese Chemical Letters, 2022, 33, 153-162.	4.8	13
338	Surface engineering of hematite nanorods by 2D Ti3C2-MXene: Suppressing the electron-hole recombination for enhanced photoelectrochemical performance. Applied Catalysis B: Environmental, 2021, 291, 120107.	10.8	45
339	Elastic properties of two-dimensional Pt with adsorbed oxygen. Physical Review B, 2021, 104, .	1.1	1
340	Electrostatic Deposition Kinetics of Colloidal Silver Nanoplates onto Optically and E-Beam Transparent Water-Insoluble Polycationic Films. Journal of Physical Chemistry C, 2021, 125, 17870-17880.	1.5	2
341	Arsenene-mediated multiple independently targeted reactive oxygen species burst for cancer therapy. Nature Communications, 2021, 12, 4777.	5.8	144
342	Synthesis Methods of Obtaining Materials for Hydrogen Sensors. Sensors, 2021, 21, 5758.	2.1	9
343	Programming a " <i>Crab Claw</i> ―like DNA Nanomachine as a Super Signal Amplifier for Ultrasensitive Electrochemical Assay of Hg <sup>2+</sup> . Analytical Chemistry, 2021, 93, 12075-12080.	3.2	19
344	Emerging two-dimensional nanocatalysts for electrocatalytic hydrogen production. Chinese Chemical Letters, 2022, 33, 1831-1840.	4.8	67
345	Emerging 2D pnictogens for biomedical applications. Chinese Chemical Letters, 2022, 33, 2345-2353.	4.8	3
346	Properties, synthesis, and recent advancement in photocatalytic applications of graphdiyne: A review. Separation and Purification Technology, 2022, 281, 119825.	3.9	40

#	Article	IF	CITATIONS
347	Third order optical nonlinearities in CdS nanostructured thin films: a comprehensive review. Journal of Materials Science: Materials in Electronics, 2021, 32, 24176-24197.	1.1	2
348	One-step fabrication of highly dense gold nanoparticles on polyamide for surface-enhanced Raman scattering. Applied Surface Science, 2021, 561, 149856.	3.1	6
349	Recent advances in two-dimensional Pt based electrocatalysts for methanol oxidation reaction. International Journal of Hydrogen Energy, 2021, 46, 31202-31215.	3.8	87
350	Facile Synthesis of PdCuRu Porous Nanoplates as Highly Efficient Electrocatalysts for Hydrogen Evolution Reaction in Alkaline Medium. Metals, 2021, 11, 1451.	1.0	4
351	Two-dimensional IrN2 monolayer: An efficient bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. Journal of Colloid and Interface Science, 2021, 600, 711-718.	5.0	27
352	Nanomaterials-based electrochemical sensors and biosensors for the detection of non-steroidal anti-inflammatory drugs. TrAC - Trends in Analytical Chemistry, 2021, 143, 116403.	5.8	49
353	Single-parameter-tuned synthesis for shape-controlled gold nanocrystals stimulated by iron carbonyl. Journal of Colloid and Interface Science, 2021, 601, 773-781.	5.0	3
354	Adsorption promoted visible-light-induced photocatalytic degradation of antibiotic tetracycline by tin oxide/cerium oxide nanocomposite. Applied Surface Science, 2021, 565, 150337.	3.1	62
355	Quinoxaline-functionalized silver nanoparticles as chromogenic probe for the multiple selective detection of cysteine, Mg2+ and Sn2+ in aqueous solution. Sensors and Actuators B: Chemical, 2021, 349, 130743.	4.0	11
356	Smartphone-based portable device for rapid and sensitive pH detection by fluorescent carbon dots. Sensors and Actuators A: Physical, 2021, 332, 113057.	2.0	11
357	Sheet-on-sheet TiO2/Bi2MoO6 heterostructure for enhanced photocatalytic amoxicillin degradation. Journal of Hazardous Materials, 2022, 421, 126634.	6.5	50
358	Trimetallic nanostructures and their applications in electrocatalytic energy conversions. Journal of Energy Chemistry, 2022, 65, 329-351.	7.1	15
359	Carbon Nanomaterials: A Prominent Emerging Materials Towards Environmental Pollution Study and Control. Energy, Environment, and Sustainability, 2021, , 5-25.	0.6	0
360	Substrate-immobilized noble metal nanoplates: a review of their synthesis, assembly, and application. Journal of Materials Chemistry C, 2021, 9, 12974-13012.	2.7	13
361	Photoacoustic Imaging and Photothermal Therapy of Semiconducting Polymer Nanoparticles: Signal Amplification and Second Nearâ€Infrared Construction. Small, 2021, 17, e2004723.	5.2	168
362	Application of two-dimensional materials in perovskite solar cells: recent progress, challenges, and prospective solutions. Journal of Materials Chemistry C, 2021, 9, 14065-14092.	2.7	24
363	2D CoOOH nanosheets as oxidase mimic for the colorimetric assay of sulfite in food. Analytical Methods, 2021, 13, 764-768.	1.3	6
364	Controllable synthesis and characterization of Mg <sub>2</sub> SiO <sub>4</sub> nanostructures <i>via</i> a simple hydrothermal route using carboxylic acid as capping agent and their photocatalytic performance for photodegradation of azo dyes. RSC Advances, 2021, 11, 21588-21599.	1.7	11

#	Article	IF	CITATIONS
365	Tellurium, the Forgotten Element: A Review of the Properties, Processes, and Biomedical Applications of the Bulk and Nanoscale Metalloid., 2020,, 723-783.		6
366	Noble Metal-Based Nanozymes. Nanostructure Science and Technology, 2020, , 331-365.	0.1	8
367	Engineered Phyllosilicate Clay-Based Antimicrobial Surfaces. Materials Horizons, 2020, , 95-108.	0.3	1
368	Naturally derived pyroxene nanomaterials: an ore for wide applications. , 2020, , 731-774.		1
369	Covalent Organic Frameworks for Catalysis. EnergyChem, 2020, 2, 100035.	10.1	129
371	Controlled preparation of multiple mesoporous CoAl-LDHs nanosheets for the high performance of NO <sub>x</sub> detection at room temperature. RSC Advances, 2020, 10, 34466-34473.	1.7	7
372	Structural and optical properties of monocrystalline and polycrystalline gold plasmonic nanorods. Optics Express, 2020, 28, 34960.	1.7	7
373	Recent progress on applications of 2D material-decorated microfiber photonic devices in pulse shaping and all-optical signal processing. Nanophotonics, 2020, 9, 2641-2671.	2.9	21
374	Nanocomposites for Electrochemical Sensors and Their Applications on the Detection of Trace Metals in Environmental Water Samples. Sensors, 2021, 21, 131.	2.1	38
375	Recent advances in the exonuclease III-assisted target signal amplification strategy for nucleic acid detection. Analytical Methods, 2021, 13, 5103-5119.	1.3	13
376	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. Chemical Society Reviews, 2021, 50, 12744-12787.	18.7	75
377	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. Advanced Functional Materials, 2022, 32, 2108107.	7.8	90
378	The Role of Glycerol in the Synthesis of Nanomaterials. Engineering Materials, 2022, , 217-228.	0.3	1
379	Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction. Journal of the American Chemical Society, 2021, 143, 17292-17299.	6.6	59
380	Noble Metal Nanoparticles Decorated Metal Oxide Semiconducting Nanowire Arrays Interwoven into 3D Mesoporous Superstructures for Low-Temperature Gas Sensing. ACS Central Science, 2021, 7, 1885-1897.	5.3	45
382	Atomically Thin Materials for Next-Generation Rechargeable Batteries. Chemical Reviews, 2022, 122, 957-999.	23.0	87
383	Monolayer goldene intercalated in graphene layers. Applied Physics Letters, 2020, 117, .	1.5	4
384	Inâ€situ seeding synthesis of walnut kernelâ€like Ag nanostructures with highly efficient SERS performance. Micro and Nano Letters, 2020, 15, 1110-1114.	0.6	0

#	Article	IF	CITATIONS
385	Nanomaterials and Pollution Control. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 309-323.	0.3	1
386	Earth-abundant electrocatalysts for sustainable energy conversion. , 2022, , 131-168.		0
387	Cyanobacteria: As a promising candidate for nanoparticles synthesis., 2022,, 351-360.		1
388	One-pot synthesis of the direct Z-scheme AglnS2/Agln5S8 QDs heterojunction for efficient photocatalytic reduction of Cr6+ in neutral condition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127762.	2.3	16
389	A defect-rich layered double hydroxide nanofiber filter with solar-driven regeneration for wastewater treatment. Chemical Engineering Journal, 2022, 430, 132842.	6.6	10
390	2D van der Waals materials for ultrafast pulsed fiber lasers: review and prospect. Nanotechnology, 2022, 33, 082003.	1.3	11
391	Deep Eutectic Solvent-Mediated Synthesis of Bullet-Shaped Cerium Zinc Oxide and Sheet-Like Cerium Zinc Hydroxide Nitrate: Colorimetric and Fluorometric Detection of Pyrophosphate Ions. ACS Sustainable Chemistry and Engineering, 2021, 9, 15147-15156.	3.2	16
392	Strategies, Challenges, and Advancement in Immobilizing Silver Nanomaterials. Gels Horizons: From Science To Smart Materials, 2021, , 597-643.	0.3	0
393	Synergistic roles of vapor- and liquid-phase epitaxy in the seed-mediated synthesis of substrate-based noble metal nanostructures. Nanoscale, 2021, 13, 20225-20233.	2.8	5
394	Mixedâ€Dimensional MoS <sub>2</sub> /Ge Heterostructure Junction Fieldâ€Effect Transistors for Logic Operation and Photodetection. Advanced Functional Materials, 2022, 32, 2110181.	7.8	13
395	Interfacial Engineering of Metal/Metal Oxide Heterojunctions toward Oxygen Reduction and Evolution Reactions. ChemPlusChem, 2021, 86, 1586-1601.	1.3	14
396	Gold Nanoparticle-Catalyzed Multicomponent Reactions. ACS Sustainable Chemistry and Engineering, 2021, 9, 16556-16569.	3.2	21
397	Cobalt Sulfide Nanosheets as Peroxidase Mimics for Colorimetric Detection of <scp> </scp> -Cysteine. ACS Applied Nano Materials, 2021, 4, 13352-13362.	2.4	24
398	The Influence of Iodide on the Solution-Phase Growth of Cu Microplates: A Multi-Scale Theoretical Analysis from First Principles. Faraday Discussions, 2022, , .	1.6	4
399	Porphyrinâ€Based COF 2D Materials: Variable Modification of Sensing Performances by Postâ€Metallization. Angewandte Chemie, 0, , .	1.6	13
400	Oriented Attachment: A Unique Mechanism for the Colloidal Synthesis of Metal Nanostructures. ChemNanoMat, 2022, 8, .	1.5	9
401	Two-dimensional copper based colloidal nanocrystals: synthesis and applications. Nanoscale, 2022, 14, 2885-2914.	2.8	13
402	Phase engineering two-dimensional nanostructures for electrocatalytic hydrogen evolution reaction. Chinese Chemical Letters, 2023, 34, 107119.	4.8	15

#	Article	IF	CITATIONS
403	Fabrication and application of copper metal–organic frameworks as nanocarriers for pH-responsive anticancer drug delivery. Journal of the Iranian Chemical Society, 2022, 19, 2727-2737.	1.2	11
404	Influence of h-BN on electronic properties of GeS/InSe heterojunction. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	1
405	Porphyrinâ€Based COF 2D Materials: Variable Modification of Sensing Performances by Postâ€Metallization. Angewandte Chemie - International Edition, 2022, 61, .	7.2	63
406	Advanced metal and carbon nanostructures for medical, drug delivery and bio-imaging applications. Nanoscale, 2022, 14, 3987-4017.	2.8	34
407	Sorption processes using nanostructures and nanofluids. , 2022, , 97-131.		0
408	Heterostructural MoS <sub>2</sub> /NiS nanoflowers <i>via</i> precise interface modification for enhancing electrocatalytic hydrogen evolution. New Journal of Chemistry, 2022, 46, 5505-5514.	1.4	8
409	PtPdMo Nanosheets with Controllable Synthesis for Enhanced Oxygen Reduction Reactions. ACS Applied Nano Materials, 2022, 5, 1192-1199.	2.4	17
410	Cyanineâ€Doped Lanthanide Metal–Organic Frameworks for Nearâ€Infrared II Bioimaging. Advanced Science, 2022, 9, e2104561.	5.6	28
412	Understanding Nanomaterial–Liver Interactions to Facilitate the Development of Safer Nanoapplications. Advanced Materials, 2022, 34, e2106456.	11.1	51
413	Ordered Mesoporous Carbonâ€supported Morphologicallyâ€controlled Nanoâ€Gold: Role of Support as well as the Shape and Size of Gold Nanoparticles on the Selective Oxidation of Glycerol. ChemCatChem, 2022, 14, .	1.8	1
414	Tailoring the internal structure of porous copper film via size-controlled copper nanosheets for electromagnetic interference shielding. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 278, 115611.	1.7	5
415	Advances in MXenes-based optical biosensors: A review. Biosensors and Bioelectronics, 2022, 202, 113995.	5.3	52
416	The role of sodium dodecyl sulfate mediated hydrothermal synthesis of MoS2 nanosheets for photocatalytic dye degradation and dye-sensitized solar cell application. Chemosphere, 2022, 294, 133725.	4.2	25
417	Direct methanol fuel cells system–A review of dual-role electrocatalysts for oxygen reduction and methanol oxidation. Journal of Materials Science and Technology, 2022, 114, 29-41.	5.6	77
418	Design and development of conductive nanomaterials for electrochemical sensors: a modern approach. Materials Today Chemistry, 2022, 24, 100769.	1.7	22
419	Understanding Synthesis and Structural Variation of Nanomaterials Through In Situ/Operando XAS and SAXS. Small, 2022, 18, e2106017.	5.2	18
420	Silver nanodendrites as excellent catalytic activity properties in dye degradation. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	2
421	Highly selective colorimetric sensing for iodide in water based on a novel surface passivation of Ag nanoprisms. Dyes and Pigments, 2022, 200, 110177.	2.0	7

#	Article	IF	CITATIONS
422	Recent progress in low-dimensional palladium-based nanostructures for electrocatalysis and beyond. Coordination Chemistry Reviews, 2022, 459, 214388.	9.5	38
423	Colloidal Inorganic Ligand-Capped Nanocrystals: Fundamentals, Status, and Insights into Advanced Functional Nanodevices. Chemical Reviews, 2022, 122, 4091-4162.	23.0	52
424	Plasmonic-Metal/2d-Semiconductor Hybrids for Photodetection and Photocatalysis in Energy-Related and Environmental Processes. SSRN Electronic Journal, 0, , .	0.4	0
425	Ultrathin perovskite derived Ir-based nanosheets for high-performance electrocatalytic water splitting. Energy and Environmental Science, 2022, 15, 1672-1681.	15.6	41
426	Etching-Dependent Sers Activity of Ag Triangular Nanoplates: From Decrease to Increase. SSRN Electronic Journal, 0, , .	0.4	0
427	Ultrathin two-dimensional metallenes for heterogeneous catalysis. Chem Catalysis, 2022, 2, 693-723.	2.9	39
428	Surface-Ligand-Controlled Enhancement of Carrier Density in Plasmonic Tungsten Oxide Nanocrystals: Spectroscopic Observation of Trap-State Passivation <i>via</i> Multidentate Metal Phosphonate Bonding. Chemistry of Materials, 0, , .	3.2	8
429	Recent trends in MXene/Metal chalcogenides for electro-/photocatalytic hydrogen evolution reactions. International Journal of Hydrogen Energy, 2022, 47, 41711-41732.	3.8	21
430	Two-Dimensional Nanomaterials beyond Graphene for Biomedical Applications. Journal of Functional Biomaterials, 2022, 13, 27.	1.8	55
431	Advances in metal graphitic nanocapsules for biomedicine. Exploration, 2022, 2, .	5.4	16
432	Ruthenium Icosahedra and Ultrathin Platelets: The Role of Surface Chemistry on the Nanoparticle Structure. Chemistry of Materials, 2022, 34, 2931-2944.	3.2	5
433	Sub-ppb-Level Detection of Nitrogen Dioxide Based on High-Quality Black Phosphorus. ACS Applied Materials & Samp; Interfaces, 2022, 14, 13942-13951.	4.0	17
434	Photocatalytic CO2 Reduction Using TiO2-Based Photocatalysts and TiO2 Z-Scheme Heterojunction Composites: A Review. Molecules, 2022, 27, 2069.	1.7	29
435	Large and Small Solids: A Journey Through Inorganic Chemistry. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	0
436	Tunable 2D Nanomaterials; Their Key Roles and Mechanisms in Water Purification and Monitoring. Frontiers in Environmental Science, 2022, 10, .	1.5	16
437	Cobalt and nickel coordinated guanidinium-based two-dimensional covalent organic framework nanosheets for efficient photocatalytic CO2 reduction. Catalysis Today, 2022, 402, 202-209.	2.2	4
438	Controllable synthesis of PtO modified mesoporous Co3O4 nanocrystals as a highly effective photocatalyst for degradation of Foron Blue dye. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 428, 113859.	2.0	16
439	The covalent functionalization of few-layered MoTe2 thin films with iodonium salts. Materials Today Chemistry, 2022, 24, 100846.	1.7	2

#	Article	IF	CITATIONS
440	Effect of silica nanoparticle size on the stability and thermophysical properties of molten salts based nanofluids for thermal energy storage applications at concentrated solar power plants. Journal of Energy Storage, 2022, 51, 104276.	3.9	16
441	Comparison of the Stability of 2H Nanosurfaces by the Adsorption of Small Molecules : A DFT Study. International Journal of Scientific Research in Science and Technology, 2021, , 122-129.	0.1	0
442	Recent advancements in graphdiyne-based nano-materials for biomedical applications. Materials Today: Proceedings, 2022, 56, 112-120.	0.9	11
443	Green Fabrication of Bioactive Silver Nanoparticles Using <i>Mentha pulegium</i> Extract under Alkaline: An Enhanced Anticancer Activity. ACS Omega, 2022, 7, 1494-1504.	1.6	10
444	Preparation of Au@Pd Core–Shell Nanorods with <i>fcc</i> -2H- <i>fcc</i> Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation. Journal of the American Chemical Society, 2022, 144, 547-555.	6.6	88
445	Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials. Nano Research, 2023, 16, 4289-4309.	5.8	17
446	Nanographene – A Scaffold of Twoâ€Dimensional Materials. Chemical Record, 2022, 22, e202100257.	2.9	9
447	Facile Synthesis of Pd and PdPtNi Trimetallic Nanosheets as Enhanced Oxygen Reduction Electrocatalysts. Small, 2022, 18, e2103665.	5.2	20
448	Tailorâ€Engineered 2D Cocatalysts: Harnessing Electron–Hole Redox Center of 2D gâ€C <sub>3</sub> N <sub>4</sub> Photocatalysts toward Solarâ€toâ€Chemical Conversion and Environmental Purification. Advanced Functional Materials, 2022, 32, .	7.8	93
449	Supported Subâ€Nanometer Clusters for Electrocatalysis Applications. Advanced Functional Materials, 2022, 32, .	7.8	25
450	Theoretical Study of Twoâ€Dimensional ZrO <sub>2</sub> /g <sub>3</sub> N <sub>4</sub> Sandwich Structure Loaded Nobleâ€Metal Rh Singleâ€Atom Catalysts. ChemistrySelect, 2022, 7, .	0.7	0
452	Rare Earthâ€Based Nanomaterials for Supercapacitors: Preparation, Structure Engineering and Application. ChemSusChem, 2022, 15, .	3.6	21
453	Insight into the effects of the crystal phase of Ru over ultrathin Ru@Pt core–shell nanosheets for methanol electrooxidation. Nanoscale, 2022, 14, 8096-8102.	2.8	10
454	A heterogeneous reaction strategy towards the general synthesis of 2D non-layered nanomaterials. Materials Advances, 0, , .	2.6	0
455	Crystal Facet-Manipulated 2D Pt Nanodendrites to Achieve an Intimate Heterointerface for Hydrogen Evolution Reactions. Journal of the American Chemical Society, 2022, 144, 9033-9043.	6.6	53
456	Decreasing the Overpotential of Aprotic Li O <sub>2</sub> Batteries with the Inâ€Plane Alloy Structure in Ultrathin 2D Ruâ€Based Nanosheets. Advanced Functional Materials, 2022, 32, .	7.8	39
457	Recent Advances and Challenges in Ultrafast Photonics Enabled by Metal Nanomaterials. Advanced Optical Materials, 2022, 10, .	3.6	7
458	Impact of iodide ions in the transformation of Cu nanostructures from one-dimensional nanowires to two-dimensional microplates. Journal of Chemical Sciences, 2022, 134, 1.	0.7	8

#	Article	IF	CITATIONS
459	Assembly of Bimetallic (Au-Ag)FON Composite Film at Liquid/Solid Interfaces and Their Tunable Optical Properties. Dalton Transactions, 0, , .	1.6	1
460	High-yield synthesis and hybridizations of Cu microplates for catalytic applications. CrystEngComm, 2022, 24, 4454-4464.	1.3	2
462	Regulating Pd-catalysis for electrocatalytic CO2 reduction to formate via intermetallic PdBi nanosheets. Chinese Journal of Catalysis, 2022, 43, 1680-1686.	6.9	20
463	Construction of a Silver Nanoparticle Complex and its Application in Cancer Treatment. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 56, 1-16.	0.5	0
464	Plasma Electroless Reduction: A Green Process for Designing Metallic Nanostructure Interfaces onto Polymeric Surfaces and 3D Scaffolds. ACS Applied Materials & Samp; Interfaces, 2022, 14, 25065-25079.	4.0	7
465	Integration of Nanographenes and Organic Chemistry – Toward Nanographeneâ€based Twoâ€Dimensional Materials. ChemPhysChem, 2022, 23, .	1.0	3
466	Boosting nitrate electroreduction to ammonia via in situ generated stacking faults in oxide-derived copper. Chemical Engineering Journal, 2022, 446, 137341.	6.6	39
467	A General Synthetic Method for High-Entropy Alloy Subnanometer Ribbons. Journal of the American Chemical Society, 2022, 144, 10582-10590.	6.6	108
468	Highly sensitive, weatherability strain and temperature sensors based on AgNPs@CNT composite polyvinyl hydrogel. Journal of Materials Chemistry A, 2022, 10, 15000-15011.	5.2	34
469	Ag@ZIF-8/g-C <sub>3</sub> N <sub>4</sub> Z-scheme photocatalyst for the enhanced removal of multiple classes of antibiotics by integrated adsorption and photocatalytic degradation under visible light irradiation. RSC Advances, 2022, 12, 17919-17931.	1.7	13
470	Synthesis of Nickel Oxide Nanoparticles from Syzygium cumini Plant Fruit Pulp Extract: Study of their Antibacterial, Antifungal and Cytotoxic Activities on CHO Cells. Asian Journal of Chemistry, 2022, 34, 1735-1741.	0.1	1
471	0D/1D BiVO4/CdS Z-scheme nanoarchitecture for efficient photocatalytic environmental remediation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 650, 129583.	2.3	14
472	Nobleâ€Metalâ€Based Hollow Mesoporous Nanoparticles: Synthesis Strategies and Applications. Advanced Materials, 2022, 34, .	11.1	44
473	Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications. Chemical Reviews, 2022, 122, 12748-12863.	23.0	35
474	Recent Developments in Chemical Vapor Deposition of 2D Magnetic Transition Metal Chalcogenides. ACS Applied Electronic Materials, 2022, 4, 3303-3324.	2.0	4
475	Facile Synthesis of Porous Ag Crystals as SERS Sensor for Detection of Five Methamphetamine Analogs. Molecules, 2022, 27, 3939.	1.7	6
476	Dimensionalâ€Transformation of Ternaryâ€Alloy through the Manipulation of Reduction Kinetics. Advanced Functional Materials, 2022, 32, .	7.8	2
477	Plasmonic-metal/2D-semiconductor hybrids for photodetection and photocatalysis in energy-related and environmental processes. Coordination Chemistry Reviews, 2022, 469, 214665.	9.5	21

#	Article	IF	CITATIONS
478	Catalytic Oxidation of Formaldehyde on Ultrathin Co3o4 Nanosheets at Room Temperature: Effect of Enhanced Active Sites Exposure on Reaction Path. SSRN Electronic Journal, $0, , .$	0.4	0
479	Two-dimensional carbide/nitride (MXene) materials in thermal catalysis. Journal of Materials Chemistry A, 2022, 10, 19444-19465.	5.2	25
480	Oneâ€Pot Synthesis of Hatâ€like PdAu Alloy Open Nanostructures with Improved Oxidaseâ€like Activities. ChemNanoMat, 0, , .	1.5	0
481	Interference of layered double hydroxide nanoparticles with pathways for biomedical applications. Advanced Drug Delivery Reviews, 2022, 188, 114451.	6.6	18
482	<scp>Highâ€performance</scp> fabricated nanoâ€adsorbents as emerging approach for removal of mycotoxins: a review. International Journal of Food Science and Technology, 2022, 57, 5781-5789.	1.3	3
483	Antitumor Applications of Photothermal Agents and Photothermal Synergistic Therapies. International Journal of Molecular Sciences, 2022, 23, 7909.	1.8	23
484	Two dimensional layered bismuthene nanosheets with ultra-fast charge transfer kinetics as a superior electrode material for high performance asymmetric supercapacitor. Electrochimica Acta, 2022, 426, 140838.	2.6	20
485	Etching-dependent SERS activity of Ag triangular nanoplates: From decrease to increase. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115426.	1.3	3
486	Recent progresses on radiotherapeutics-based treatment of cancer with two-dimensional nanomaterials. Applied Materials Today, 2022, 29, 101584.	2.3	1
487	CHAPTER 3. Synthesis of Two-dimensional Hybrid Materials, Unique Properties, and Challenges. , 2022, , 64-125.		0
488	Optimal Production of $f^{2}_{0}\$ Cu $_{3}\$ m O $_{7}\$ Eco-Friendly Superconductors Using the Taguchi Experimental Design. Journal of Low Temperature Physics, 0, , .	0.6	0
489	Advances in Intelligent Regeneration of Cathode Materials for Sustainable Lithiumâ€ion Batteries. Advanced Energy Materials, 2022, 12, .	10.2	34
490	A prospectus for thickness dependent electronic properties of twoâ€dimensional metals using density functional theory calculation. International Journal of Quantum Chemistry, 2022, 122, .	1.0	3
491	Atomically Reconstructed Palladium Metallene by Intercalation-Induced Lattice Expansion and Amorphization for Highly Efficient Electrocatalysis. ACS Nano, 2022, 16, 13715-13727.	7.3	64
492	Ultrathin Pdâ€based Perforated Nanosheets for Fuel Cells Electrocatalysis. ChemElectroChem, 0, , .	1.7	5
493	Boosting room-temperature conversion of methane via confining Cu atoms in ultrathin Ru nanosheets. Chem Catalysis, 2022, 2, 2253-2261.	2.9	14
494	Iron-doped cerium/nucleotide coordination polymer as highly efficient peroxidase mimic for colorimetric detection of fluoride ion. Mikrochimica Acta, 2022, $189$ , .	2.5	0
495	Ferric Chloride-Induced Synthesis of Silver Nanodisks with Considerable Activity for the Reduction of 4-Nitrophenol. ACS Omega, 2022, 7, 28860-28865.	1.6	3

#	Article	IF	CITATIONS
496	Versatile BP/Pd-FPEI-CpG nanocomposite for "three-in-one" multimodal tumor therapy. Nano Today, 2022, 46, 101590.	6.2	10
497	Engineering ultrathin PdAu nanoring via a facile process for electrocatalytic ethanol oxidation. Journal of Colloid and Interface Science, 2022, 628, 53-63.	5.0	5
498	Hydrothermal and photoreduction synthesis of nanostructured α-Fe2O3/Ag urchins for sensitive SERS detection of environmental samples. Applied Surface Science, 2022, 604, 154448.	3.1	8
499	Two-Dimensional Layered Bismuthene/Antimonene Nanocomposite as a Potential Electrode Material for the Fabrication of High-Energy Density Hybrid Supercapacitors. Energy & Samp; Fuels, 2022, 36, 12299-12309.	2.5	8
500	Structural evolution of PtCu nanoframe for efficient oxygen reduction reactions. Journal of Electroanalytical Chemistry, 2022, 922, 116756.	1.9	6
501	Promising transparent and flexible thermoelectric modules based on p-type Cul thin films—A review. Energy Reports, 2022, 8, 11607-11637.	2.5	5
502	Catalytic oxidation of formaldehyde on ultrathin Co3O4 nanosheets at room temperature: Effect of enhanced active sites exposure on reaction path. Applied Catalysis B: Environmental, 2022, 319, 121902.	10.8	22
503	Excellent Electro-Catalytic Performance of Hierarchical Porous Ni-Cu Synthesized by Electrochemical Dealloying Toward Methanol Oxidation. SSRN Electronic Journal, 0, , .	0.4	O
504	Anisotropic and hyperbranched InP nanocrystals <i>via</i> produced In <sub>2</sub> O <sub>3</sub> . Chemical Communications, 2022, 58, 9246-9249.	2.2	0
505	A Facile, Label-free and Versatile Fluorescence Sensing Nanoplatform Based on Titanium Carbide Nanosheets for the Detection of Various Targets. Journal of Fluorescence, 2022, 32, 2189-2198.	1.3	1
506	Regioselective Friedel–Crafts Acylation Reaction Using Single Crystalline and Ultrathin Nanosheet Assembly of Scrutinyite-SnO <sub>2</sub> . ACS Omega, 2022, 7, 32225-32237.	1.6	1
508	Controllable Constructing Janus Homologous Heterostructures of Transition Metal Alloys/Sulfides for Efficient Oxygen Electrocatalysis. Advanced Energy Materials, 2022, 12, .	10.2	36
509	Integration and Applications of Nanomaterials for Ultrafast Photonics. Laser and Photonics Reviews, 2022, 16, .	4.4	24
510	Carbon Nanostructures for Ocular Tissue Reinforcement. Translational Vision Science and Technology, 2022, 11, 1.	1.1	1
511	Plasmonic Nanostars: Systematic Review of their Synthesis and Applications. ACS Applied Nano Materials, 2022, 5, 14051-14091.	2.4	10
513	Intermetallic Nanocrystals: Seedâ€Mediated Synthesis and Applications in Electrocatalytic Reduction Reactions. Chemistry - A European Journal, 0, , .	1.7	4
514	Polymer Nanocomposite Containing Palladium Nanoparticles: Synthesis, Characterization, and Properties. Polymers, 2022, 14, 3795.	2.0	5
515	A Critical Review on New and Efficient 2D Materials for Catalysis. Advanced Materials Interfaces, 2022, 9, .	1.9	7

#	Article	IF	CITATIONS
516	Edge modification facilitated heterogenization and exfoliation of two-dimensional nanomaterials for cancer catalytic therapy. Science Advances, 2022, 8, .	4.7	35
517	Controlled Synthesis of Carbon-Supported Pt-Based Electrocatalysts for Proton Exchange Membrane Fuel Cells. Electrochemical Energy Reviews, 2022, 5, .	13.1	23
519	Bioengineered Metallic Nanomaterials for Nanoscale Drug Delivery Systems. Nanotechnology in the Life Sciences, 2022, , 187-225.	0.4	2
520	Two-dimensional materials for electrocatalysis and energy storage applications. Inorganic Chemistry Frontiers, 2022, 9, 6008-6046.	3.0	9
521	Violet Phosphorus Nanosheet: A Biocompatible and Stable Platform for Stimuliâ€Responsive Multimodal Cancer Phototherapy. Advanced Healthcare Materials, 2023, 12, .	3.9	5
522	Structural diversity in three-dimensional self-assembly of nanoplatelets by spherical confinement. Nature Communications, 2022, 13, .	5.8	7
523	PdAu Nanosheets for Visible-Light-Driven Suzuki Cross-Coupling Reactions. ACS Applied Nano Materials, 2022, 5, 16196-16206.	2.4	2
524	Smallâ€6cale Big Science: From Nano―to Atomically Dispersed Catalytic Materials. Small Science, 2022, 2, .	5.8	31
525	Rapid preparation of CuO composite graphene for portable electrochemical sensing of sulfites based on laser etching technique. Microchemical Journal, 2022, 183, 108096.	2.3	2
526	Excellent electrocatalytic performance toward methanol oxidation of hierarchical porous NiCu obtained by electrochemical dealloying. Journal of Alloys and Compounds, 2023, 934, 167811.	2.8	8
527	$\mbox{\sc sc substitution}$ $\mbox{\sc sc substitution}$ Rate and Mechanism $\mbox{\sc substitution}$ of Chemical Physics, 0, , .	1.2	0
528	Advances on multiâ€dimensional highâ€entropy alloy nanoarchitectures: Unconventional strategies and prospects. Nano Select, 2023, 4, 48-78.	1.9	3
529	Fungal-mediated synthesis of gold nanoparticles and their biological applications., 2023,, 23-58.		0
530	Vertical distribution of PbI2 nanosheets for robust air-processed perovskite solar cells. Chemical Engineering Journal, 2023, 454, 140163.	6.6	11
531	Largeâ€Area Periodic Arrays of Atomically Flat Singleâ€Crystal Gold Nanotriangles Formed Directly on Substrate Surfaces. Small, 2022, 18, .	5.2	6
532	Manganese Dioxide Nanoparticles Prepared by Laser Ablation as Materials with Interesting Electronic, Electrochemical, and Disinfecting Properties in Both Colloidal Suspensions and Deposited on Fluorine-Doped Tin Oxide. Nanomaterials, 2022, 12, 4061.	1.9	1
533	Metallene-related materials for electrocatalysis and energy conversion. Materials Horizons, 2023, 10, 407-431.	6.4	13
534	Etching suppression as a means to Pt dendritic ultrathin nanosheets by seeded growth. Nanoscale, 2023, 15, 1739-1753.	2.8	3

#	Article	IF	CITATIONS
535	Two-dimensional nanomaterials: A critical review of recent progress, properties, applications, and future directions. Composites Part A: Applied Science and Manufacturing, 2023, 165, 107362.	3.8	66
536	Two-dimensional template-directed synthesis of one-dimensional kink-rich Pd3Pb nanowires for efficient oxygen reduction. Journal of Colloid and Interface Science, 2023, 634, 827-835.	5.0	3
537	Nano packaging $\hat{a}\in$ Progress and future perspectives for food safety, and sustainability. Food Packaging and Shelf Life, 2023, 35, 100997.	3.3	22
538	Substrate-Free Fabrication of Single-Crystal Two-Dimensional Gold Nanoplates for Catalytic Application. Langmuir, 2022, 38, 15263-15271.	1.6	4
539	Phase-Controllable Chemical Vapor Deposition Synthesis of Atomically Thin MoTe2. Nanomaterials, 2022, 12, 4133.	1.9	2
540	Aggregation in carbon dots. Aggregate, 2022, 3, .	5.2	40
541	Metallic Nanomaterials with Biomedical Applications. Metals, 2022, 12, 2133.	1.0	1
542	Review of 2D MnO <sub>2</sub> Nanosheets as FRET-Based Nanodot Fluorescence Quenchers in Chemosensing Applications. ACS Applied Nano Materials, 2022, 5, 17373-17412.	2.4	8
543	A sandwich-type electrochemical immunosensor based on spherical nucleic acids-templated Ag nanoclusters for ultrasensitive detection of tumor biomarker. Biosensors and Bioelectronics, 2023, 223, 115029.	5.3	9
544	Colloidal Synthesis of Metal Nanocrystals: From Asymmetrical Growth to Symmetry Breaking. Chemical Reviews, 2023, 123, 3693-3760.	23.0	28
545	Hybrid Lamellar Superlattices with Monoatomic Platinum Layers and Programmable Organic Ligands. Journal of the American Chemical Society, 2023, 145, 717-724.	6.6	6
546	Sustainable Synthesis of Highly Biocompatible 2D Boron Nitride Nanosheets. Biomedicines, 2022, 10, 3238.	1.4	2
547	Porous design of molecularly imprinted polymers for improved drug loading and organized release properties. Journal of Materials Science, 0, , .	1.7	0
548	Two-Dimensional Nanomaterial-Templated Composites. Accounts of Chemical Research, 2022, 55, 3581-3593.	7.6	25
549	Emerging 2D Copperâ€Based Materials for Energy Storage and Conversion: A Review and Perspective. Small, 2023, 19, .	5.2	21
550	Synthesis of amorphous Pd-based nanocatalysts for efficient alcoholysis of styrene oxide and electrochemical hydrogen evolution. Nano Research, 2023, 16, 4650-4655.	5.8	10
551	Noble metal nanodendrites: growth mechanisms, synthesis strategies and applications. Materials Horizons, 2023, 10, 1234-1263.	6.4	9
552	Two-dimensional nanomaterials: synthesis and applications in photothermal catalysis. Nanoscale, 2023, 15, 2455-2469.	2.8	11

#	Article	IF	CITATIONS
553	Recent Advances of Coreâ€Shell Cuâ€Based Catalysts for the Reduction of CO <sub>2</sub> to C <sub>2+</sub> Products. Chemistry - an Asian Journal, 2023, 18, .	1.7	4
554	Simple and Tailorable Synthesis of Silver Nanoplates in Gram Quantities. ACS Omega, 2023, 8, 2760-2772.	1.6	3
555	Centimeter-Scale Two-Dimensional Metallenes for High-Efficiency Electrocatalysis and Sensing. , 2023, 5, 397-405.		5
556	Preparation of 2D Polyaniline/MoO <sub>3â^'</sub> <i><sub>x</sub></i> Superlattice Nanosheets via Intercalationâ€Induced Morphological Transformation for Efficient Chemodynamic Therapy. Advanced Healthcare Materials, 2023, 12, .	3.9	11
557	A redox reaction-induced ratiometric fluorescence platform for the specific detection of ascorbic acid based on Ag <sub>2</sub> S quantum dots and multifunctional CoOOH nanoflakes. Journal of Materials Chemistry B, 2023, 11, 1279-1287.	2.9	11
558	Design of thin-layer porous nickel cobalt sulfide for high-performance asymmetric supercapacitors. Journal of Alloys and Compounds, 2023, 945, 168902.	2.8	24
559	Structure, stability, and electronic and optical properties of TMDC–coinage metal composites: vertical atomically thin self-assembly of Au clusters. Physical Chemistry Chemical Physics, 2023, 25, 4177-4192.	1.3	3
560	Issues and strategies of cathode materials for mild aqueous static zinc-ion batteries. Green Chemical Engineering, 2023, 4, 264-284.	3.3	1
561	Synthesis of Two-Dimensional Metal, Metal Oxide and Metal Hydroxide Nanomaterials for Biosensing. Environmental Chemistry for A Sustainable World, 2023, , 161-185.	0.3	0
562	Lattice Mismatch–Induced Formation of Copper Nanoplates with Embedded Ultrasmall Platinum or Palladium Cores for Tunable Optical Properties. Small, 2023, 19, .	5.2	1
563	2D-CuPd nanozyme overcome tamoxifen resistance in breast cancer by regulating the PI3K/AKT/mTOR pathway. Biomaterials, 2023, 294, 121986.	5.7	10
564	Optimizing density-functional simulations for two-dimensional metals. Physical Review Materials, 2022, 6, .	0.9	1
565	Imidazolium organometallic complex of palladium on Fe <sub>3</sub> O <sub>4</sub> nanoparticles as selective and magnetically recoverable nanocatalyst for C  cross oupling reactions. Applied Organometallic Chemistry, 2023, 37, .	1.7	1
566	Pd-based nanocatalysts for oxygen reduction reaction: Preparation, performance, and in-situ characterization., 2023, 42, 100021.		2
567	Atomic cation-vacancy engineering of two-dimensional nanosheets for energy-related applications. Materials Chemistry Frontiers, 2023, 7, 1004-1024.	3.2	13
568	Nanoscale phenomena in metal oxide heterostructures. , 2023, , 77-105.		0
569	Starvation-assisted and photothermal-thriving combined chemo/chemodynamic cancer therapy with PT/MR bimodal imaging. Biomaterials Science, 2023, 11, 2129-2138.	2.6	2
570	Defect engineering of two-dimensional materials for advanced energy conversion and storage. Chemical Society Reviews, 2023, 52, 1723-1772.	18.7	66

#	Article	IF	CITATIONS
571	2D noble metals: growth peculiarities and prospects for hydrogen evolution reaction catalysis. Physical Chemistry Chemical Physics, 2023, 25, 8281-8292.	1.3	3
572	Recent Developments in Two-Dimensional (2D) Inorganic Nanomaterials-Based Photothermal Therapy for Cancer Theranostics. Biological and Medical Physics Series, 2023, , 563-595.	0.3	0
573	Efficient Synthesis of 2D Mica Nanosheets by Solvothermal and Microwave-Assisted Techniques for CO2 Capture Applications. Materials, 2023, 16, 2921.	1.3	2
574	Electrocatalytic hydrogen and oxygen evolution reactions: Role of two-dimensional layered materials and their composites. Electrochimica Acta, 2023, 447, 142119.	2.6	15
575	Recent advances in nanoengineering 2D metal-based materials for electrocatalytic conversion of carbon dioxide into fuels and value-added products. Fuel, 2023, 343, 127873.	3.4	7
576	Recent advances in two-dimensional metal-organic frameworks as an exotic candidate for the evaluation of redox-active sites in energy storage devices. Journal of Energy Storage, 2023, 64, 107142.	3.9	25
577	Two-dimensional porous vermiculite-based nanocatalysts for synergetic catalytic therapy. Biomaterials, 2023, 295, 122031.	5.7	17
578	Graphene Oxide Nanosurface Reduces Apoptotic Death of HCT116 Colon Carcinoma Cells Induced by Zirconium Trisulfide Nanoribbons. International Journal of Molecular Sciences, 2023, 24, 2783.	1.8	2
579	Innovations in the Packaging of Meat and Meat Productsâ€"A Review. Coatings, 2023, 13, 333.	1.2	3
580	Potential and Progress of 2D Materials in Photomedicine for Cancer Treatment. ACS Applied Bio Materials, 2023, 6, 365-383.	2.3	5
581	Tripodal Pd metallenes mediated by Nb2C MXenes for boosting alkynes semihydrogenation. Nature Communications, 2023, $14$ , .	5.8	12
582	Towards the Future of Polymeric Hybrids of Two-Dimensional Black Phosphorus or Phosphorene: From Energy to Biological Applications. Polymers, 2023, 15, 947.	2.0	1
583	Blowing Ultrathin 2D Materials. Advanced Materials Interfaces, 2023, 10, .	1.9	0
584	Two-Dimensional Metal Nanostructures: From Theoretical Understanding to Experiment. Chemical Reviews, 2023, 123, 3443-3492.	23.0	11
585	Van der Waals Epitaxy Growth of 2D Singleâ€Element Roomâ€Temperature Ferromagnet. Advanced Materials, 2023, 35, .	11.1	3
586	Toward the Commercialization of Carbon Nanotube Field Effect Transistor Biosensors. Biosensors, 2023, 13, 326.	2.3	3
587	Introduction of Metal Nanoparticles, Dental Applications, and Their Effects., 2023,, 23-52.		0
588	Green nanoparticles for protection and deprotection reactions in organic synthesis., 2023,, 173-193.		0

#	Article	IF	CITATIONS
589	Plate-Like Colloidal Metal Nanoparticles. Chemical Reviews, 2023, 123, 3493-3542.	23.0	24
590	A Lowâ€Temperature Synthetic Route Toward a Highâ€Entropy 2D Hexernary Transition Metal Dichalcogenide for Hydrogen Evolution Electrocatalysis. Advanced Science, 2023, 10, .	5.6	9
591	PdCu Bimetallene for Enhanced Oxygen Reduction Electrocatalysis. Inorganic Chemistry, 2023, 62, 5622-5629.	1.9	7
592	Cuâ€Doped Heterointerfaced Ru/RuSe <sub>2</sub> Nanosheets with Optimized H and H <sub>2</sub> O Adsorption Boost Hydrogen Evolution Catalysis. Advanced Materials, 2023, 35, .	11.1	26
593	Emerging metallenes: synthesis strategies, biological effects and biomedical applications. Chemical Society Reviews, 2023, 52, 2833-2865.	18.7	4
594	Wet-chemistry synthesis of two-dimensional Pt- and Pd-based intermetallic electrocatalysts for fuel cells. Nanoscale, 2023, 15, 8508-8531.	2.8	5
595	Nanotechnology based therapeutic approaches: an advanced strategy to target the biofilm of ESKAPE pathogens. Materials Advances, 2023, 4, 2544-2572.	2.6	6
596	Rational Engineering of 2D Materials as Advanced Catalyst Cathodes for Highâ€Performance Metal–Carbon Dioxide Batteries. Small Structures, 2023, 4, .	6.9	2
597	Recent advances, properties, fabrication and opportunities in two-dimensional materials for their potential sustainable applications. Energy Storage Materials, 2023, 59, 102780.	9.5	12
598	Colorimetric sensing of Cu(II) ions in water on the basis of selective chemical etching of EDA-capped Ag nanoplates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2023, 297, 122750.	2.0	2
599	Corrosion resistant nanoscale polymer-based coatings. , 2023, , 547-584.		0
600	Multidimensional modulation of light fields via a combination of two-dimensional materials and meta-structures. Science China Information Sciences, 2023, 66, .	2.7	2
605	Recent Advances in 2D Material Theory, Synthesis, Properties, and Applications. ACS Nano, 2023, 17, 9694-9747.	7.3	21
607	Low platinum-based electrocatalysts for fuel cells: status and prospects. , 2023, , 127-175.		0
611	Recent advances and perspectives of emerging two-dimensional transition metal carbide/nitride-based materials for organic pollutant photocatalysis. Materials Chemistry Frontiers, 2023, 7, 4658-4682.	3.2	10
618	Nanoarchitectonics of Metallene Materials for Electrocatalysis. ACS Nano, 2023, 17, 13017-13043.	7.3	34
623	Organic and inorganic nanomaterials: fabrication, properties and applications. RSC Advances, 2023, 13, 13735-13785.	1.7	17
646	Recent advances in two-dimensional nanomaterials as bifunctional electrocatalysts for full water splitting. Journal of Materials Chemistry A, 2023, 11, 18502-18529.	5.2	7

#	ARTICLE	IF	CITATIONS
651	The reformation of catalyst: From a trial-and-error synthesis to rational design. Nano Research, 0, , .	5.8	16
653	Amalgamation of MXenes and Polymers for Multifunctional Nanocomposites. ACS Symposium Series, 0, , 27-54.	0.5	O
660	Recent developments and challenges in flexible electrochemical energy devices., 2023,, 107-127.		0
667	Photo-enhanced dehydrogenation of formic acid on Pd-based hybrid plasmonic nanostructures. Nanoscale Advances, 2023, 5, 6819-6829.	2.2	1
679	Oxidation-induced superelasticity in metallic glass nanotubes. Nature Materials, 0, , .	13.3	0
688	Fabrication routes for metallic nanostructured electrochemical biosensors., 2024,, 79-96.		0
691	Magnetic two-dimensional nanocomposites for multimodal antitumor therapy: a recent review. Journal of Materials Chemistry B, 2024, 12, 1404-1428.	2.9	0
703	Sustainable valorization of food waste for the biogeneration of nanomaterials. , 2024, , 91-101.		O
705	2D and thin-film copper synthesized via magnetron sputtering. MRS Communications, 0, , .	0.8	0