

# Dai-Viet N Vo

## List of Publications by Year in descending order

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554  
papers

23,375  
citations

8755

75  
h-index

21540

114  
g-index

566  
all docs

566  
docs citations

566  
times ranked

20450  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in dry reforming of methane over Ni-based catalysts. <i>Journal of Cleaner Production</i> , 2017, 162, 170-185.	9.3	538
2	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020, 389, 124401.	12.7	484
3	Arsenic removal technologies and future trends: A mini review. <i>Journal of Cleaner Production</i> , 2021, 278, 123805.	9.3	298
4	Recent progress in the preparation, properties and applications of superhydrophobic nano-based coatings and surfaces: A review. <i>Progress in Organic Coatings</i> , 2019, 132, 235-256.	3.9	292
5	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016, 28, 6562-6567.	21.0	285
6	Self-Activated Transparent All-Graphene Gas Sensor with Endurance to Humidity and Mechanical Bending. <i>ACS Nano</i> , 2015, 9, 10453-10460.	14.6	277
7	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019, 11, 1933.	4.5	259
8	Construction of dual Z-scheme g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via I <sup>3+</sup> and Bi <sup>3+</sup> /Bi <sup>5+</sup> redox mediators. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119808.	20.2	252
9	Increased Work Function in Few-Layer Graphene Sheets via Metal Chloride Doping. <i>Advanced Functional Materials</i> , 2012, 22, 4724-4731.	14.9	242
10	Critical review on hazardous pollutants in water environment: Occurrence, monitoring, fate, removal technologies and risk assessment. <i>Science of the Total Environment</i> , 2021, 797, 149134.	8.0	233
11	A review on biosynthesis of metal nanoparticles and its environmental applications. <i>Chemosphere</i> , 2021, 264, 128580.	8.2	227
12	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , 2018, 2, 1700419.	8.6	213
13	Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses. <i>Advanced Materials</i> , 2018, 30, e1704002.	21.0	205
14	Advanced synthesis strategies of mesoporous SBA-15 supported catalysts for catalytic reforming applications: A state-of-the-art review. <i>Applied Catalysis A: General</i> , 2018, 559, 57-74.	4.3	193
15	A comprehensive review on different approaches for CO <sub>2</sub> utilization and conversion pathways. <i>Chemical Engineering Science</i> , 2021, 236, 116515.	3.8	190
16	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , 2018, 28, 1705783.	14.9	177
17	Adsorption mechanism of hexavalent chromium onto layered double hydroxides-based adsorbents: A systematic in-depth review. <i>Journal of Hazardous Materials</i> , 2019, 373, 258-270.	12.4	177
18	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016, 9, 2240-2248.	30.8	174

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19	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2189-2209.	5.5	165
20	Flexible active-matrix organic light-emitting diode display enabled by MoS <sub>2</sub> thin-film transistor. <i>Science Advances</i> , 2018, 4, eaas8721.	10.3	163
21	Recent Advances in Memristive Materials for Artificial Synapses. <i>Advanced Materials Technologies</i> , 2018, 3, 1800457.	5.8	161
22	Environmental applications of carbon-based materials: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 557-582.	16.2	156
23	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105849.	10.8	152
24	Transformation of biomass into carbon nanofiber for supercapacitor application – A review. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20811-20821.	7.1	147
25	Size-Dependent Properties of Two-Dimensional MoS <sub>2</sub> and WS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2016, 120, 10078-10085.	3.1	144
26	Photocatalysis for removal of environmental pollutants and fuel production: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 441-463.	16.2	140
27	Enhanced Endurance Organolead Halide Perovskite Resistive Switching Memories Operable under an Extremely Low Bending Radius. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30764-30771.	8.0	135
28	Lead-Free All-Inorganic Cesium Tin Iodide Perovskite for Filamentary and Interface-Type Resistive Switching toward Environment-Friendly and Temperature-Tolerant Nonvolatile Memories. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8155-8163.	8.0	133
29	Recent Advances in TiO <sub>2</sub> -Based Photocatalysts for Reduction of CO <sub>2</sub> to Fuels. <i>Nanomaterials</i> , 2020, 10, 337.	4.1	133
30	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS <sub>2</sub> van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5016-5024.	10.3	132
31	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. <i>Journal of Hazardous Materials</i> , 2021, 419, 126451.	12.4	129
32	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. <i>Bioresource Technology</i> , 2022, 344, 126203.	9.6	129
33	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 430-454.	10.3	125
34	Statistical analysis of adsorption isotherm models and its appropriate selection. <i>Chemosphere</i> , 2021, 276, 130176.	8.2	125
35	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. <i>InformaÄnÄ-MateriÄly</i> , 2019, 1, 289-316.	17.3	123
36	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO <sub>2</sub> to high-value renewable fuels. <i>Chemical Engineering Journal</i> , 2020, 402, 126184.	12.7	123

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37	Recent progress in TiO <sub>2</sub> -based photocatalysts for hydrogen evolution reaction: A review. Arabian Journal of Chemistry, 2020, 13, 3653-3671.	4.9	120
38	Understanding the role of surface basic sites of catalysts in CO <sub>2</sub> activation in dry reforming of methane: a short review. Catalysis Science and Technology, 2020, 10, 35-45.	4.1	118
39	Production, characterization, activation and environmental applications of engineered biochar: a review. Environmental Chemistry Letters, 2021, 19, 2261-2297.	16.2	117
40	Magnetite nanoparticles as sorbents for dye removal: a review. Environmental Chemistry Letters, 2021, 19, 2487-2525.	16.2	116
41	Fe <sub>3</sub> O <sub>4</sub> /ZnO/Si <sub>3</sub> N <sub>4</sub> nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. Materials Letters, 2020, 278, 128359.	2.6	115
42	Novel Architecture Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. Nanomaterials, 2020, 10, 602.	4.1	114
43	Inhibition of Ion Migration for Reliable Operation of Organolead Halide Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors. Advanced Functional Materials, 2016, 26, 4213-4222.	14.9	112
44	Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review. Environmental Chemistry Letters, 2021, 19, 613-641.	16.2	111
45	Techniques and modeling of polyphenol extraction from food: a review. Environmental Chemistry Letters, 2021, 19, 3409-3443.	16.2	107
46	Syngas production from methane dry reforming over Ni/SBA-15 catalyst: Effect of operating parameters. International Journal of Hydrogen Energy, 2017, 42, 11283-11294.	7.1	104
47	Ionic liquids, deep eutectic solvents and liquid polymers as green solvents in carbon capture technologies: a review. Environmental Chemistry Letters, 2020, 18, 2031-2054.	16.2	103
48	Adsorptional-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 2021, 416, 125714.	12.4	102
49	Transition Metal Disulfide Nanosheets Synthesized by Facile Sonication Method for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 3929-3935.	3.1	101
50	BiVO <sub>4</sub> photocatalysis design and applications to oxygen production and degradation of organic compounds: a review. Environmental Chemistry Letters, 2020, 18, 1779-1801.	16.2	100
51	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. Journal of Power Sources, 2016, 319, 1-8.	7.8	98
52	MXenes: Applications in electrocatalytic, photocatalytic hydrogen evolution reaction and CO <sub>2</sub> reduction. Molecular Catalysis, 2020, 486, 110850.	2.0	97
53	Silicate glass matrix@Cu <sub>2</sub> O/Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub> p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. Journal of Hazardous Materials, 2021, 402, 123790.	12.4	95
54	Synthesis of Atomically Thin Transition Metal Disulfides for Charge Transport Layers in Optoelectronic Devices. ACS Nano, 2015, 9, 4146-4155.	14.6	94

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55	Halide Perovskites for Applications beyond Photovoltaics. <i>Small Methods</i> , 2018, 2, 1700310.	8.6	94
56	Two-dimensional transition metal dichalcogenide nanomaterials for solar water splitting. <i>Electronic Materials Letters</i> , 2015, 11, 323-335.	2.2	93
57	A review on glycerol reforming processes over Ni-based catalyst for hydrogen and syngas productions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18466-18489.	7.1	93
58	Two-Dimensional Transition Metal Disulfides for Chemosensitive Gas Sensing: Perspective and Challenges. <i>Chemosensors</i> , 2017, 5, 15.	3.6	92
59	Performances of Liquid-Exfoliated Transition Metal Dichalcogenides as Hole Injection Layers in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2015, 25, 4512-4519.	14.9	91
60	Full-color active-matrix organic light-emitting diode display on human skin based on a large-area MoS <sub>2</sub> backplane. <i>Science Advances</i> , 2020, 6, eabb5898.	10.3	91
61	Biogenic synthesis of MgO nanoparticles from different extracts (flower, bark, leaf) of <i>Tecoma stans</i> (L.) and their utilization in selected organic dyes treatment. <i>Journal of Hazardous Materials</i> , 2021, 404, 124146.	12.4	91
62	Halide perovskites for resistive random-access memories. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5226-5234.	5.5	90
63	Green technology for the industrial production of biofuels and bioproducts from microalgae: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1967-1985.	16.2	89
64	Enhancement of hole injection using O <sub>2</sub> plasma-treated Ag anode for top-emitting organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 86, 012104.	3.3	86
65	The use of UV/ozone-treated MoS <sub>2</sub> nanosheets for extended air stability in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13123-13128.	2.8	86
66	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. <i>Chemosphere</i> , 2021, 274, 129734.	8.2	86
67	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018, 3, 35-44.	8.0	84
68	Perovskite oxide-based photocatalysts for solar-driven hydrogen production: Progress and perspectives. <i>Solar Energy</i> , 2020, 211, 584-599.	6.1	84
69	Biofuels and renewable chemicals production by catalytic pyrolysis of cellulose: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1625-1648.	16.2	84
70	Cesium lead iodide solar cells controlled by annealing temperature. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6257-6263.	2.8	82
71	A comparative study of machine learning methods for bio-oil yield prediction – A genetic algorithm-based features selection. <i>Bioresource Technology</i> , 2021, 335, 125292.	9.6	82
72	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10571-10603.	10.3	80

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73	Recent advancements in microbial fuel cells: A review on its electron transfer mechanisms, microbial community, types of substrates and design for bio-electrochemical treatment. <i>Chemosphere</i> , 2022, 286, 131856.	8.2	80
74	Black Phosphorus: Critical Review and Potential for Water Splitting Photocatalyst. <i>Nanomaterials</i> , 2016, 6, 194.	4.1	79
75	Synthesis of Numerous Edge Sites in MoS <sub>2</sub> via SiO <sub>2</sub> Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31594-31602.	8.0	79
76	Dual-Phase All-Inorganic Cesium Halide Perovskites for Conducting-Bridge Memory-Based Artificial Synapses. <i>Advanced Functional Materials</i> , 2019, 29, 1906686.	14.9	79
77	The emerging covalent organic frameworks (COFs) for solar-driven fuels production. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214117.	18.8	79
78	Photocatalytic NO <sub>x</sub> abatement: Recent advances and emerging trends in the development of photocatalysts. <i>Journal of Cleaner Production</i> , 2020, 270, 121912.	9.3	78
79	Two-Dimensional Metal-Organic Frameworks and Covalent-Organic Frameworks for Electrocatalysis: Distinct Merits by the Reduced Dimension. <i>Advanced Energy Materials</i> , 2022, 12, 2003990.	19.5	78
80	The nitrogen cycle and mitigation strategies for nitrogen loss during organic waste composting: A review. <i>Chemosphere</i> , 2022, 300, 134514.	8.2	78
81	Enhancement of electron injection in inverted top-emitting organic light-emitting diodes using an insulating magnesium oxide buffer layer. <i>Applied Physics Letters</i> , 2005, 87, 082102.	3.3	77
82	Microwave Pyrolysis with Steam Activation in Producing Activated Carbon for Removal of Herbicides in Agricultural Surface Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 695-703.	3.7	77
83	Green synthesis of ZrO <sub>2</sub> nanoparticles and nanocomposites for biomedical and environmental applications: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1309-1331.	16.2	77
84	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6070-6076.	10.3	76
85	Optimization, equilibrium, adsorption behavior and role of surface functional groups on graphene oxide-based nanocomposite towards diclofenac drug. <i>Journal of Environmental Sciences</i> , 2020, 93, 137-150.	6.1	76
86	Suppressing inhibitory compounds by nanomaterials for highly efficient biofuel production: A review. <i>Fuel</i> , 2022, 312, 122934.	6.4	76
87	Mechanism for Ohmic contact formation of oxidized Ni/Au on p-type GaN. <i>Journal of Applied Physics</i> , 2003, 94, 1748-1752.	2.5	75
88	The Study on Extraction Process and Analysis of Components in Essential Oils of Black Pepper (Piper) <small>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</small>	2.8	75
89	Graphene-based catalysts for electrochemical carbon dioxide reduction. , 2020, 2, 158-175.		75
90	Recent developments in photocatalytic remediation of textile effluent using semiconductor based nanostructured catalyst: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104881.	6.7	75

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91	Production of optically pure lactic acid by microbial fermentation: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 539-556.	16.2	72
92	Advances in biosorbents for removal of environmental pollutants: A review on pretreatment, removal mechanism and future outlook. <i>Journal of Hazardous Materials</i> , 2021, 420, 126596.	12.4	72
93	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 109. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	71
94	Effects of anaerobic digestion of food waste on biogas production and environmental impacts: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2921-2939.	16.2	71
95	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4137-4164.	16.2	71
96	Simultaneous biohydrogen (H <sub>2</sub> ) and bioplastic (poly- $\beta$ -hydroxybutyrate-PHB) productions under dark, photo, and subsequent dark and photo fermentation utilizing various wastes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5840-5853.	7.1	70
97	Evaluate the role of biochar during the organic waste composting process: A critical review. <i>Chemosphere</i> , 2022, 299, 134488.	8.2	70
98	Use of silane-functionalized graphene oxide in organic photovoltaic cells and organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9369-9374.	2.8	69
99	Drastically enhanced hydrogen evolution activity by 2D to 3D structural transition in anion-engineered molybdenum disulfide thin films for efficient Si-based water splitting photocathodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15534-15542.	10.3	69
100	Catalytic gasification of wheat straw in hot compressed (subcritical and supercritical) water for hydrogen production. <i>Energy Science and Engineering</i> , 2018, 6, 448-459.	4.0	69
101	A review on the microbial degradation of chlorpyrifos and its metabolite TCP. <i>Chemosphere</i> , 2021, 283, 131447.	8.2	69
102	Polarized Light-Emitting Diodes Based on Patterned MoS <sub>2</sub> Nanosheet Hole Transport Layer. <i>Advanced Materials</i> , 2017, 29, 1702598.	21.0	68
103	Emerging cocatalysts in TiO <sub>2</sub> -based photocatalysts for light-driven catalytic hydrogen evolution: Progress and perspectives. <i>Fuel</i> , 2022, 307, 121745.	6.4	68
104	ZnO-based heterostructures as photocatalysts for hydrogen generation and depollution: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1047-1081.	16.2	68
105	Investigation of Energy Levels and Crystal Structures of Cesium Lead Halides and Their Application in Full-Color Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2017, 3, 1600448.	5.1	67
106	Hydrogen production from CH <sub>4</sub> dry reforming over bimetallic Ni-Co/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of the Energy Institute</i> , 2018, 91, 683-694.	5.3	67
107	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33835-33843.	8.0	67
108	Superhydrophobic and antireflective nanograss-coated glass for high performance solar cells. <i>Nano Research</i> , 2014, 7, 670-678.	10.4	66

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109	Syngas production from methane dry reforming over Ni/Al <sub>2</sub> O <sub>3</sub> catalyst. Research on Chemical Intermediates, 2016, 42, 269-288.	2.7	66
110	Combined steam and CO <sub>2</sub> reforming of methane for syngas production over carbon-resistant boron-promoted Ni/SBA-15 catalysts. Microporous and Mesoporous Materials, 2018, 262, 122-132.	4.4	66
111	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. Catalysts, 2018, 8, 487.	3.5	66
112	The role of metal dopants in WS <sub>2</sub> nanoflowers in enhancing the hydrogen evolution reaction. Applied Catalysis A: General, 2018, 567, 73-79.	4.3	66
113	Halide perovskite photocatalysis: progress and perspectives. Journal of Chemical Technology and Biotechnology, 2020, 95, 2579-2596.	3.2	66
114	SnS <sub>2</sub> Nanograins on Porous SiO <sub>2</sub> Nanorods Template for Highly Sensitive NO <sub>2</sub> Sensor at Room Temperature with Excellent Recovery. ACS Sensors, 2019, 4, 678-686.	7.8	64
115	Overview on the Current Status of Hydrogen Energy Research and Development in India. Chemical Engineering and Technology, 2020, 43, 613-624.	1.5	63
116	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing. Nano-Micro Letters, 2022, 14, 58.	27.0	62
117	Ethanol dry reforming for syngas production over Ce-promoted Ni/Al <sub>2</sub> O <sub>3</sub> catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4830-4838.	6.7	61
118	An efficient hydrogenation catalytic model hosted in a stable hyper-crosslinked porous-organic-polymer: from fatty acid to bio-based alkane diesel synthesis. Green Chemistry, 2020, 22, 2049-2068.	9.0	61
119	Techniques of lipid extraction from microalgae for biofuel production: a review. Environmental Chemistry Letters, 2021, 19, 231-251.	16.2	61
120	Sustainable adsorbents for the removal of pesticides from water: a review. Environmental Chemistry Letters, 2021, 19, 2425-2463.	16.2	61
121	Biocarriers for biofilm immobilization in wastewater treatments: a review. Environmental Chemistry Letters, 2020, 18, 1925-1945.	16.2	60
122	Occurrence and removal of antibiotics from industrial wastewater. Environmental Chemistry Letters, 2021, 19, 1477-1507.	16.2	60
123	Synthesis, characterization, and application of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles for photocatalytic degradation of Rhodamine B under visible light illumination.	6.1	60
124	Bi-reforming of methane on Ni/SBA-15 catalyst for syngas production: Influence of feed composition. International Journal of Hydrogen Energy, 2018, 43, 17230-17243.	7.1	59
125	Enhanced Optical Properties and Stability of CsPbBr <sub>3</sub> Nanocrystals Through Nickel Doping. Advanced Functional Materials, 2021, 31, 2102770.	14.9	59
126	Effect of anions in Au complexes on doping and degradation of graphene. Journal of Materials Chemistry C, 2013, 1, 2463.	5.5	58



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127	Facile synthesis of WS <sub>2</sub> hollow spheres and their hydrogen evolution reaction performance. Applied Surface Science, 2020, 505, 144574.	6.1	58
128	Microwave-assisted solvothermal fabrication of hybrid zeolitic imidazolate framework (ZIF-8) for optimizing dyes adsorption efficiency using response surface methodology. Journal of Environmental Chemical Engineering, 2020, 8, 104189.	6.7	58
129	Microbial degradation of recalcitrant pesticides: a review. Environmental Chemistry Letters, 2021, 19, 3209-3228.	16.2	58
130	Robust magnetic ZnO-Fe <sub>2</sub> O <sub>3</sub> Z-scheme heterojunctions with in-built metal-redox for high performance photo-degradation of sulfamethoxazole and electrochemical dopamine detection. Environmental Research, 2021, 197, 111074.	7.5	58
131	Recent progress on MXenes and MOFs hybrids: Structure, synthetic strategies and catalytic water splitting. International Journal of Hydrogen Energy, 2023, 48, 6560-6574.	7.1	58
132	Metal salt-modified biochars derived from agro-waste for effective congo red dye removal. Environmental Research, 2021, 200, 111492.	7.5	57
133	Recent advances on nickel nano-ferrite: A review on processing techniques, properties and diverse applications. Chemical Engineering Research and Design, 2021, 175, 182-208.	5.6	57
134	Evaluating green silver nanoparticles as prospective biopesticides: An environmental standpoint. Chemosphere, 2022, 286, 131761.	8.2	57
135	UV/ozone-treated WS <sub>2</sub> hole extraction layer in organic photovoltaic cells. Physica Status Solidi - Rapid Research Letters, 2014, 8, 390-394.	2.4	56
136	Direct synthesis of two-dimensional MoS <sub>2</sub> on p-type Si and application to solar hydrogen production. NPG Asia Materials, 2019, 11, .	7.9	56
137	A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal. Environmental Research, 2021, 196, 110996.	7.5	54
138	Recent advances in the application of two-dimensional materials as charge transport layers in organic and perovskite solar cells. FlatChem, 2017, 2, 54-66.	5.6	53
139	Insight into the influence of rare-earth promoter (CeO <sub>2</sub> , La <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , and Sm <sub>2</sub> O <sub>3</sub> ) addition toward methane dry reforming over Co/mesoporous alumina catalysts. Chemical Engineering Science, 2020, 228, 115967.	3.8	53
140	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. Journal of Materials Chemistry A, 2021, 9, 8527-8540.	10.3	53
141	A review on nano-catalysts and biochar-based catalysts for biofuel production. Fuel, 2021, 306, 121632.	6.4	53
142	Fischer-Tropsch synthesis over alumina-supported molybdenum carbide catalyst. Applied Catalysis A: General, 2011, 399, 221-232.	4.3	52
143	Graphene oxide/PEDOT:PSS and reduced graphene oxide/PEDOT:PSS hole extraction layers in organic photovoltaic cells. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1363-1368.	1.8	52
144	Recent advances in two-dimensional transition metal dichalcogenides as photoelectrocatalyst for hydrogen evolution reaction. Journal of Chemical Technology and Biotechnology, 2020, 95, 2597-2607.	3.2	52

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145	Dual use of tantalum disulfides as hole and electron extraction layers in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25468-25472.	2.8	51
146	Influence of Lanthanide Promoters on Ni/SBA-15 Catalysts for Syngas Production by Methane Dry Reforming. <i>Procedia Engineering</i> , 2016, 148, 1388-1395.	1.2	51
147	Catalytic performance of La-Ni/Al <sub>2</sub> O <sub>3</sub> catalyst for CO <sub>2</sub> reforming of ethanol. <i>Catalysis Today</i> , 2017, 291, 67-75.	4.4	51
148	Microwave-assisted dry reforming of methane for syngas production: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1987-2019.	16.2	51
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