

Dai-Viet N Vo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1947498/dai-viet-n-vo-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

527
papers

12,052
citations

55
h-index

83
g-index

565
ext. papers

17,252
ext. citations

6.8
avg, IF

7.45
L-index

#	Paper	IF	Citations
527	Recent advances in dry reforming of methane over Ni-based catalysts. <i>Journal of Cleaner Production</i> , 2017 , 162, 170-185	10.3	372
526	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020 , 389, 124401	14.7	254
525	Self-Activated Transparent All-Graphene Gas Sensor with Endurance to Humidity and Mechanical Bending. <i>ACS Nano</i> , 2015 , 9, 10453-60	16.7	220
524	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016 , 28, 6562-7	24	219
523	Increased Work Function in Few-Layer Graphene Sheets via Metal Chloride Doping. <i>Advanced Functional Materials</i> , 2012 , 22, 4724-4731	15.6	212
522	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	4.8	164
521	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 2240-2248	35.4	150
520	Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses. <i>Advanced Materials</i> , 2018 , 30, e1704002	24	149
519	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	5.1	145
518	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , 2018 , 2, 1700419	12.8	145
517	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , 2018 , 28, 1705783	15.6	130
516	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019 , 11,	4.5	121
515	Flexible active-matrix organic light-emitting diode display enabled by MoS thin-film transistor. <i>Science Advances</i> , 2018 , 4, eaas8721	14.3	116
514	Size-Dependent Properties of Two-Dimensional MoS ₂ and WS ₂ . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10078-10085	3.8	115
513	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2189-2209	7.09	113
512	Enhanced Endurance Organolead Halide Perovskite Resistive Switching Memories Operable under an Extremely Low Bending Radius. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30764-30771	9.5	109
511	Construction of dual Z-scheme g-C ₃ N ₄ /Bi ₄ Ti ₃ O ₁₂ /Bi ₄ O ₅ I ₂ heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via Bi ³⁺ and Bi ³⁺ /Bi ⁵⁺ redox mediators. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119808	21.8	109

510	Recent Advances in Memristive Materials for Artificial Synapses. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800457	6.8	102
509	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	12.8	101
508	Inhibition of Ion Migration for Reliable Operation of Organolead Halide Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2016 , 26, 4213-4222	15.6	97
507	Transformation of biomass into carbon nanofiber for supercapacitor application □ A review. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20811-20821	6.7	97
506	Arsenic removal technologies and future trends: A mini review. <i>Journal of Cleaner Production</i> , 2021 , 278, 123805	10.3	95
505	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 430-454	13	87
504	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS ₂ van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5016-5024	13	84
503	A review on biosynthesis of metal nanoparticles and its environmental applications. <i>Chemosphere</i> , 2021 , 264, 128580	8.4	82
502	Fe ₃ O ₄ /ZnO/Si ₃ N ₄ nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. <i>Materials Letters</i> , 2020 , 278, 128359	3.3	81
501	Two-dimensional transition metal dichalcogenide nanomaterials for solar water splitting. <i>Electronic Materials Letters</i> , 2015 , 11, 323-335	2.9	80
500	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. <i>Journal of Power Sources</i> , 2016 , 319, 1-8	8.9	78
499	Enhancement of hole injection using O ₂ plasma-treated Ag anode for top-emitting organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 86, 012104	3.4	77
498	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 & Interfaces</i> , 2019 , 11, 8155-8163	9.5	76
497	Synthesis of atomically thin transition metal disulfides for charge transport layers in optoelectronic devices. <i>ACS Nano</i> , 2015 , 9, 4146-55	16.7	76
496	Transition Metal Disulfide Nanosheets Synthesized by Facile Sonication Method for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3929-3935	3.8	76
495	The use of UV/ozone-treated MoS ₂ nanosheets for extended air stability in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13123-8	3.6	76
494	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	3.4	73
493	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. <i>Informa[®] Materials</i> , 2019 , 1, 289-316	23.1	71

492	Syngas production from methane dry reforming over Ni/SBA-15 catalyst: Effect of operating parameters. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11283-11294	6.7	70
491	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	15.6	69
490	Two-Dimensional Transition Metal Disulfides for Chemoresistive Gas Sensing: Perspective and Challenges. <i>Chemosensors</i> , 2017 , 5, 15	4	66
489	Recent Advances in TiO-Based Photocatalysts for Reduction of CO to Fuels. <i>Nanomaterials</i> , 2020 , 10,	5.4	65
488	Novel Architecture Titanium Carbide (TiCT) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	63
487	Halide Perovskites for Applications beyond Photovoltaics. <i>Small Methods</i> , 2018 , 2, 1700310	12.8	63
486	Use of silane-functionalized graphene oxide in organic photovoltaic cells and organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9369-74	3.6	62
485	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	62
484	Environmental applications of carbon-based materials: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 557-582	13.3	62
483	Cesium lead iodide solar cells controlled by annealing temperature. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6257-6263	3.6	61
482	Halide perovskites for resistive random-access memories. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5226-5234	5.234	61
481	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6070-6076	13	61
480	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	6.4	60
479	The Study on Extraction Process and Analysis of Components in Essential Oils of Black Pepper (<i>Piper nigrum</i> L.) Seeds Harvested in Gia Lai Province, Vietnam. <i>Processes</i> , 2019 , 7, 56	2.9	60
478	Black Phosphorus: Critical Review and Potential for Water Splitting Photocatalyst. <i>Nanomaterials</i> , 2016 , 6,	5.4	60
477	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018 , 3, 35-44	10.8	60
476	Synthesis of Numerous Edge Sites in MoS via SiO Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31594-31602	9.5	58
475	Recent progress in TiO ₂ -based photocatalysts for hydrogen evolution reaction: A review. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3653-3671	5.9	58

474	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	13	57
473	MXenes: Applications in electrocatalytic, photocatalytic hydrogen evolution reaction and CO ₂ reduction. <i>Molecular Catalysis</i> , 2020 , 486, 110850	3.3	57
472	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO ₂ to high-value renewable fuels. <i>Chemical Engineering Journal</i> , 2020 , 402, 126184	14.7	55
471	Microwave Pyrolysis with Steam Activation in Producing Activated Carbon for Removal of Herbicides in Agricultural Surface Water. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 695-703	3.0	55
470	Superhydrophobic and antireflective nanoglass-coated glass for high performance solar cells. <i>Nano Research</i> , 2014 , 7, 670-678	10	52
469	Polarized Light-Emitting Diodes Based on Patterned MoS Nanosheet Hole Transport Layer. <i>Advanced Materials</i> , 2017 , 29, 1702598	24	52
468	Understanding the role of surface basic sites of catalysts in CO ₂ activation in dry reforming of methane: a short review. <i>Catalysis Science and Technology</i> , 2020 , 10, 35-45	5.5	52
467	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	12.8	51
466	Effect of anions in Au complexes on doping and degradation of graphene. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2463	7.1	48
465	Fischer-Tropsch synthesis over alumina-supported molybdenum carbide catalyst. <i>Applied Catalysis A: General</i> , 2011 , 399, 221-232	5.1	48
464	Green technology for the industrial production of biofuels and bioproducts from microalgae: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1967-1985	13.3	48
463	Ionic liquids, deep eutectic solvents and liquid polymers as green solvents in carbon capture technologies: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 2031-2054	13.3	48
462	SnS Nanograins on Porous SiO Nanorods Template for Highly Sensitive NO Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019 , 4, 678-686	9.2	47
461	Combined steam and CO ₂ reforming of methane for syngas production over carbon-resistant boron-promoted Ni/SBA-15 catalysts. <i>Microporous and Mesoporous Materials</i> , 2018 , 262, 122-132	5.3	47
460	UV/ozone-treated WS ₂ hole-extraction layer in organic photovoltaic cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 390-394	2.5	47
459	Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 613-641	13.3	47
458	The role of metal dopants in WS ₂ nanoflowers in enhancing the hydrogen evolution reaction. <i>Applied Catalysis A: General</i> , 2018 , 567, 73-79	5.1	47
457	Ethanol dry reforming for syngas production over Ce-promoted Ni/Al ₂ O ₃ catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 4830-4838	6.8	46

456	Syngas production from methane dry reforming over Ni/Al ₂ O ₃ catalyst. <i>Research on Chemical Intermediates</i> , 2016 , 42, 269-288	2.8	46
455	Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3606		46
454	Graphene oxide/PEDOT:PSS and reduced graphene oxide/PEDOT:PSS hole extraction layers in organic photovoltaic cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1363-1368	1.6	46
453	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	6.7	46
452	Silicate glass matrix@CuO/CuVO p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123790	12.8	45
451	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	3.4	44
450	Low-resistance Ti/Al ohmic contact on undoped ZnO. <i>Journal of Electronic Materials</i> , 2002 , 31, 868-871	1.9	43
449	Adsorptional-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic acid-co-acrylamide)/zirconium tungstate nanocomposite hydrogel. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125714	12.8	43
448	Influence of Lanthanide Promoters on Ni/SBA-15 Catalysts for Syngas Production by Methane Dry Reforming. <i>Procedia Engineering</i> , 2016 , 148, 1388-1395		42
447	Simultaneous biohydrogen (H ₂) and bioplastic (poly-β-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	6.7	42
446	Photocatalysis for removal of environmental pollutants and fuel production: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 441-463	13.3	42
445	Extraction Process of Essential Oil from <i>Plectranthus amboinicus</i> Using Microwave-Assisted Hydrodistillation and Evaluation of Its Antibacterial Activity. <i>Asian Journal of Chemistry</i> , 2019 , 31, 977-984	9.4	41
444	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	6.4	41
443	Highly efficient organic light-emitting diodes with hole injection layer of transition metal oxides. <i>Journal of Applied Physics</i> , 2005 , 98, 093707	2.5	41
442	A comprehensive review on different approaches for CO ₂ utilization and conversion pathways. <i>Chemical Engineering Science</i> , 2021 , 236, 116515	4.4	41
441	Dual-Phase All-Inorganic Cesium Halide Perovskites for Conducting-Bridge Memory-Based Artificial Synapses. <i>Advanced Functional Materials</i> , 2019 , 29, 1906686	15.6	39
440	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 & Interfaces</i> , 2019 , 11, 33835-33843	9.5	39
439	Dual use of tantalum disulfides as hole and electron extraction layers in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25468-72	3.6	39

438	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. <i>Catalysts</i> , 2018 , 8, 487	4	39
437	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	10.2	39
436	Recent advances in the application of two-dimensional materials as charge transport layers in organic and perovskite solar cells. <i>FlatChem</i> , 2017 , 2, 54-66	5.1	38
435	Biofuels and renewable chemicals production by catalytic pyrolysis of cellulose: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1625-1648	13.3	38
434	Full-color active-matrix organic light-emitting diode display on human skin based on a large-area MoS backplane. <i>Science Advances</i> , 2020 , 6, eabb5898	14.3	38
433	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	13	38
432	Hydrogen production from CH ₄ dry reforming over bimetallic Ni ₂ O/Al ₂ O ₃ catalyst. <i>Journal of the Energy Institute</i> , 2018 , 91, 683-694	5.7	38
431	Effect of an indium-tin-oxide overlayer on transparent Ni/Au ohmic contact on p-type GaN. <i>Applied Physics Letters</i> , 2003 , 82, 61-63	3.4	38
430	Direct synthesis of two-dimensional MoS ₂ on p-type Si and application to solar hydrogen production. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	37
429	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 10 ⁹ . <i>NPG Asia Materials</i> , 2020 , 12,	10.3	37
428	Dark spot formation mechanism in organic light emitting diodes. <i>Applied Physics Letters</i> , 2006 , 89, 1321084	3.4	37
427	Photocatalytic NO _x abatement: Recent advances and emerging trends in the development of photocatalysts. <i>Journal of Cleaner Production</i> , 2020 , 270, 121912	10.3	36
426	Promotional Effect of Ce-dopant on Al ₂ O ₃ -supported Co Catalysts for Syngas Production via CO ₂ Reforming of Ethanol. <i>Procedia Engineering</i> , 2016 , 148, 646-653		36
425	Perovskite oxide-based photocatalysts for solar-driven hydrogen production: Progress and perspectives. <i>Solar Energy</i> , 2020 , 211, 584-599	6.8	35
424	MIL-53 (Fe) derived magnetic porous carbon as a robust adsorbent for the removal of phenolic compounds under the optimized conditions. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 102902	6.8	35
423	Catalyst design for methane steam reforming. <i>Applied Catalysis A: General</i> , 2014 , 479, 87-102	5.1	34
422	Production of optically pure lactic acid by microbial fermentation: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 539-556	13.3	34
421	Catalytic performance of La-Ni/Al ₂ O ₃ catalyst for CO ₂ reforming of ethanol. <i>Catalysis Today</i> , 2017 , 291, 67-75	5.3	33

420	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4140-4147	6.4	33
419	Facile synthesis of WS ₂ hollow spheres and their hydrogen evolution reaction performance. <i>Applied Surface Science</i> , 2020 , 505, 144574	6.7	33
418	Facile Solution Synthesis of Tungsten Trioxide Doped with Nanocrystalline Molybdenum Trioxide for Electrochromic Devices. <i>Scientific Reports</i> , 2017 , 7, 13258	4.9	32
417	MoS ₂ -nanosheet/graphene-oxide composite hole injection layer in organic light-emitting diodes. <i>Electronic Materials Letters</i> , 2017 , 13, 344-350	2.9	32
416	Halide Perovskite Quantum Dots for Light-Emitting Diodes: Properties, Synthesis, Applications, and Outlooks. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800335	6.4	32
415	Statistical analysis of adsorption isotherm models and its appropriate selection. <i>Chemosphere</i> , 2021 , 276, 130176	8.4	32
414	Bi-reforming of methane on Ni/SBA-15 catalyst for syngas production: Influence of feed composition. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17230-17243	6.7	31
413	Graphene-based catalysts for electrochemical carbon dioxide reduction 2020 , 2, 158-175		30
412	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. <i>Chemosphere</i> , 2021 , 274, 129734	8.4	30
411	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126451	12.8	30
410	Production, characterization, activation and environmental applications of engineered biochar: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2261-2297	13.3	30
409	An efficient hydrogenation catalytic model hosted in a stable hyper-crosslinked porous-organic-polymer: from fatty acid to bio-based alkane diesel synthesis. <i>Green Chemistry</i> , 2020 , 22, 2049-2068	10	29
408	Overview on the Current Status of Hydrogen Energy Research and Development in India. <i>Chemical Engineering and Technology</i> , 2020 , 43, 613-624	2	29
407	Hydrogen production via CO ₂ dry reforming of glycerol over ReNi/CaO catalysts. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20857-20871	6.7	29
406	Amino-functionalized MIL-88B(Fe)-based porous carbon for enhanced adsorption toward ciprofloxacin pharmaceutical from aquatic solutions. <i>Comptes Rendus Chimie</i> , 2019 , 22, 804-812	2.7	29
405	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. <i>Resources, Conservation and Recycling</i> , 2021 , 175, 105849	11.9	29
404	Recent Advances in Electrochemical Sensors and Biosensors for Detecting Bisphenol A. <i>Sensors</i> , 2020 , 20,	3.8	28
403	Techniques of lipid extraction from microalgae for biofuel production: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 231-251	13.3	28

402	Magnetite nanoparticles as sorbents for dye removal: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2487-2525	13.3	28
401	Promising hydrothermal technique for efficient CO ₂ methanation over Ni/SBA-15. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20792-20804	6.7	27
400	Role of Metal Cations in Alkali Metal Chloride Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8187-8193	3.8	27
399	Insight into the influence of rare-earth promoter (CeO ₂ , La ₂ O ₃ , Y ₂ O ₃ , and Sm ₂ O ₃) addition toward methane dry reforming over Co/mesoporous alumina catalysts. <i>Chemical Engineering Science</i> , 2020 , 228, 115967	4.4	27
398	Hydrogen-rich Syngas Production from Ethanol Dry Reforming on La-doped Ni/Al ₂ O ₃ Catalysts: Effect of Promoter Loading. <i>Procedia Engineering</i> , 2016 , 148, 654-661		27
397	Facile synthesis of W ₂ C@WS ₂ alloy nanoflowers and their hydrogen generation performance. <i>Applied Surface Science</i> , 2020 , 504, 144389	6.7	27
396	Enhanced microbial biodiesel production from lignocellulosic hydrolysates using yeast isolates. <i>Fuel</i> , 2019 , 256, 115932	7.1	26
395	Combined Minimum-Run Resolution IV and Central Composite Design for Optimized Removal of the Tetracycline Drug Over Metal/Organic Framework-Templated Porous Carbon. <i>Molecules</i> , 2019 , 24,	4.8	26
394	Tunable Synthesis of Mesoporous Carbons from Fe ₃ O ₄ (BDC) for Chloramphenicol Antibiotic Remediation. <i>Nanomaterials</i> , 2019 , 9,	5.4	26
393	Methane bi-reforming over boron-doped Ni/SBA-15 catalyst: Longevity evaluation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20839-20850	6.7	26
392	Flexible organic light-emitting diodes using a laser lift-off method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2144	7.1	26
391	Dry reforming of methane over Ni/dendritic fibrous SBA-15 (Ni/DFSBA-15): Optimization, mechanism, and regeneration studies. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8507-8525	6.7	26
390	Zeolitic-imidazolate framework-derived N-self-doped porous carbons with ultrahigh theoretical adsorption capacities for tetracycline and ciprofloxacin. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104938	6.8	26
389	Surface extension of MeS ₂ (Me=Mo or W) nanosheets by embedding MeS _x for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 292, 136-141	6.7	26
388	Tailoring the properties and catalytic activities of Ni/SBA-15 via different TEOS/P123 mass ratios for CO ₂ reforming of CH ₄ . <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3122-3128	6.8	25
387	Lead-free all-inorganic halide perovskite quantum dots: review and outlook. <i>Journal of the Korean Ceramic Society</i> , 2020 , 57, 455-479	2.2	25
386	Vertically aligned ZnO nanorods for photoelectrochemical water splitting application. <i>Materials Letters</i> , 2020 , 277, 128295	3.3	25
385	Halide perovskite photocatalysis: progress and perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2579	3.5	25

384	A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal. <i>Environmental Research</i> , 2021 , 196, 110996	7.9	25
383	Robust magnetic ZnO-FeO Z-scheme heterojunctions with in-built metal-redox for high performance photo-degradation of sulfamethoxazole and electrochemical dopamine detection. <i>Environmental Research</i> , 2021 , 197, 111074	7.9	25
382	BiVO ₄ photocatalysis design and applications to oxygen production and degradation of organic compounds: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1779-1801	13.3	24
381	Microwave-assisted solvothermal fabrication of hybrid zeolitic-imidazolate framework (ZIF-8) for optimizing dyes adsorption efficiency using response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104189	6.8	24
380	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , 2017 , 29, 1605929	24	23
379	Catalytic subcritical and supercritical water gasification as a resource recovery approach from waste tires for hydrogen-rich syngas production. <i>Journal of Supercritical Fluids</i> , 2019 , 154, 104627	4.2	23
378	Fabrication of a WS/p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29910-29916	9.5	23
377	Non-linear ASF product distribution over alkaline-earth promoted molybdenum carbide catalysts for hydrocarbon synthesis. <i>Catalysis Today</i> , 2013 , 214, 42-49	5.3	23
376	Effect of magnesium oxide buffer layer on performance of inverted top-emitting organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2006 , 100, 064106	2.5	23
375	Techniques and modeling of polyphenol extraction from food: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1-35	13.3	23
374	Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2069-79 ^{10.1}		23
373	Bottom-Up Synthesis of Me _x Nanodots for Optoelectronic Device Applications. <i>Advanced Optical Materials</i> , 2016 , 4, 1796-1804	8.1	23
372	2D and Quasi-2D Halide Perovskites: Applications and Progress. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900435	2.5	23
371	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	6.8	23
370	The emerging covalent organic frameworks (COFs) for solar-driven fuels production. <i>Coordination Chemistry Reviews</i> , 2021 , 446, 214117	23.2	23
369	Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. <i>MRS Communications</i> , 2017 , 7, 272-279	2.7	22
368	Submerged photocatalytic membrane reactor with suspended and immobilized N-doped TiO ₂ under visible irradiation for diclofenac removal from wastewater. <i>Chemical Engineering Research and Design</i> , 2020 , 142, 229-237	5.5	22
367	Highly Ordered TiO ₂ Nanotubes on Patterned Substrates: Synthesis-in-Place for Ultrasensitive Chemiresistors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17824-17831	3.8	22

366	Role of ionic chlorine in the thermal degradation of metal chloride-doped graphene sheets. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 253-259	7.1	22
365	MoS ₂ Nanosheets Exfoliated by Sonication and Their Application in Organic Photovoltaic Cells. <i>Science of Advanced Materials</i> , 2015 , 7, 700-705	2.3	22
364	One-Pot Synthesis of Magnetite-ZnO Nanocomposite and Its Photocatalytic Activity. <i>Topics in Catalysis</i> , 2020 , 63, 1097-1108	2.3	22
363	A novel red mud adsorbent for phosphorus and diclofenac removal from wastewater. <i>Journal of Molecular Liquids</i> , 2020 , 303, 112286	6	22
362	Metal-Organic Framework Materials for Perovskite Solar Cells. <i>Polymers</i> , 2020 , 12,	4.5	22
361	Effect of thin iridium oxide on the formation of interface dipole in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 87, 232105	3.4	21
360	Suppressing inhibitory compounds by nanomaterials for highly efficient biofuel production: A review. <i>Fuel</i> , 2022 , 312, 122934	7.1	21
359	Enhanced selective adsorption of cation organic dyes on polyvinyl alcohol/agar/maltodextrin water-resistance biomembrane. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48904	2.9	21
358	Novel synthesis of advanced Cu capped Cu ₂ O nanoparticles and their photo-catalytic activity for mineralization of aqueous dye molecules. <i>Materials Letters</i> , 2020 , 276, 128294	3.3	21
357	Boron-doped Ni/SBA-15 catalysts with enhanced coke resistance and catalytic performance for dry reforming of methane. <i>Journal of the Energy Institute</i> , 2020 , 93, 31-42	5.7	21
356	Metal-organic framework-derived MoS _x composites as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 156952	5.7	21
355	Comparison of graphene oxide with reduced graphene oxide as hole extraction layer in organic photovoltaic cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 3282-7	1.3	20
354	Fischer-Tropsch synthesis: Effect of promoter type on alumina-supported Mo carbide catalysts. <i>Catalysis Today</i> , 2011 , 175, 450-459	5.3	20
353	MODELING AND OPTIMIZATION OF THE ORANGE LEAVES OIL EXTRACTION PROCESS BY MICROWAVE-ASSISTED HYDRO-DISTILLATION: THE RESPONSE SURFACE METHOD BASED ON THE CENTRAL COMPOSITE APPROACH (RSM-CCD MODEL). <i>Rasayan Journal of Chemistry</i> , 2019 , 12, 666-676	1.6	20
352	Enhanced Optical Properties and Stability of CsPbBr ₃ Nanocrystals Through Nickel Doping. <i>Advanced Functional Materials</i> , 2021 , 31, 2102770	15.6	20
351	Stability evaluation of ethanol dry reforming on Lanthania-doped cobalt-based catalysts for hydrogen-rich syngas generation. <i>International Journal of Energy Research</i> , 2019 , 43, 405-416	4.5	20
350	MoSe ₂ /rGO Composite Catalyst for Hydrogen Evolution Reaction. <i>Polymers</i> , 2018 , 10,	4.5	20
349	Hydrogen Production From Biogas Reforming: An Overview of Steam Reforming, Dry Reforming, Dual Reforming, and Tri-Reforming of Methane 2018 , 111-166		20

- 348 Controlled synthesis of titania using water-soluble titanium complexes: A review. *Journal of Solid State Chemistry*, **2017**, 251, 143-163 3.3 19
- 347 Role of oxygen vacancies in dendritic fibrous M/KCC-1 (M = Ru, Pd, Rh) catalysts for methane partial oxidation to H₂-rich syngas production. *Fuel*, **2020**, 278, 118360 7.1 19
- 346 Enhanced dry reforming of methane over mesostructured fibrous Ni/MFI zeolite: Influence of preparation methods. *Journal of the Energy Institute*, **2020**, 93, 1535-1543 5.7 19
- 345 Hierarchical molybdenum disulfide on carbon nanotube-reduced graphene oxide composite paper as efficient catalysts for hydrogen evolution reaction. *Journal of Alloys and Compounds*, **2020**, 823, 153897 5.7 19
- 344 High performance of Mn₂(BDC)₂(DMF)₂-derived MnO@C nanocomposite as superior remediator for a series of emergent antibiotics. *Journal of Molecular Liquids*, **2020**, 308, 113038 6 19
- 343 Biodiesel synthesized from waste cooking oil in a continuous microwave assisted reactor reduced PM and NO_x emissions. *Environmental Research*, **2020**, 185, 109452 7.9 19
- 342 Facile synthesis of CsPbBr₃/PbSe composite clusters. *Science and Technology of Advanced Materials*, **2018**, 19, 10-17 7.1 19
- 341 Non-oxidative decomposition of methane/methanol mixture over mesoporous Ni-Cu/Al₂O₃ Co-doped catalysts. *International Journal of Hydrogen Energy*, **2019**, 44, 20889-20899 6.7 19
- 340 Application of Fe-based metal-organic framework and its pyrolysis products for sulfonamide treatment. *Environmental Science and Pollution Research*, **2019**, 26, 28106-28126 5.1 19
- 339 Microwave-assisted dry reforming of methane for syngas production: a review. *Environmental Chemistry Letters*, **2020**, 18, 1987-2019 13.3 19
- 338 Photocatalytic degradation of nevirapine with a heterostructure of few-layer black phosphorus coupled with niobium (V) oxide nanoflowers (FL-BP@NbO). *Chemosphere*, **2020**, 261, 128159 8.4 19
- 337 Influence of impregnation assisted methods of Ni/SBA-15 for production of hydrogen via dry reforming of methane. *International Journal of Hydrogen Energy*, **2020**, 45, 18426-18439 6.7 19
- 336 Sustainable adsorbents for the removal of pesticides from water: a review. *Environmental Chemistry Letters*, **2021**, 19, 2425-2463 13.3 19
- 335 Recyclable Fe₃O₄@C nanocomposite as potential adsorbent for a wide range of organic dyes and simulated hospital effluents. *Environmental Technology and Innovation*, **2020**, 20, 101122 7 18
- 334 Enhanced visible photocatalytic degradation of diclofenac over N-doped TiO₂ assisted with H₂O₂: A kinetic and pathway study. *Arabian Journal of Chemistry*, **2020**, 13, 8361-8371 5.9 18
- 333 Evaluation of alumina-supported Mo carbide produced via propane carburization for the Fischer-Tropsch synthesis. *Fuel*, **2012**, 93, 105-116 7.1 18
- 332 Amorphous Cobalt Oxide Nanowalls as Catalyst and Protection Layers on n-Type Silicon for Efficient Photoelectrochemical Water Oxidation. *ACS Catalysis*, **2020**, 10, 420-429 13.1 18
- 331 Si-Based Water Oxidation Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts **2020**, 2, 107-126 18

330	Ni ₃ Se ₄ @MoSe ₂ Composites for Hydrogen Evolution Reaction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5035	2.6	18
329	Techniques to improve the stability of biodiesel: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2209-2236	13.3	18
328	Dry reforming of methane for syngas production over NiCo-supported Al ₂ O ₃ /MgO catalysts. <i>Applied Petrochemical Research</i> , 2018 , 8, 263-270	1.9	18
327	Role of Additives on the Performance of CsPbI ₃ Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15903-15910	3.8	18
326	Advanced Surface of Fibrous Activated Carbon Immobilized with FeO/TiO ₂ for Photocatalytic Evolution of Hydrogen under Visible Light. <i>Chemical Engineering and Technology</i> , 2020 , 43, 752-761	2	17
325	Effect of transition-metal chlorides on graphene properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1794-1800	1.6	17
324	Change of interface dipole energy with interfacial layer thickness and O ₂ plasma treatment in metal/organic interface. <i>Applied Physics Letters</i> , 2007 , 90, 183508	3.4	17
323	Carbon Dioxide Dry Reforming of Glycerol for Hydrogen Production using Ni/ZrO ₂ and Ni/CaO as Catalysts. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2016 , 11, 200	1.7	17
322	Microbial degradation of recalcitrant pesticides: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3209-3228	13.3	17
321	Highly photoresponsive and wavelength-selective circularly-polarized-light detector based on metal-oxides hetero-chiral thin film. <i>Scientific Reports</i> , 2016 , 6, 19580	4.9	17
320	Composite photocatalysts containing MIL-53(Fe) as a heterogeneous photo-Fenton catalyst for the decolorization of rhodamine B under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 7434-7441	6.8	17
319	Occurrence and removal of antibiotics from industrial wastewater. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1477-1507	13.3	17
318	Recent Advances in the Aptamer-Based Electrochemical Biosensors for Detecting Aflatoxin B1 and Its Pertinent Metabolite Aflatoxin M1. <i>Sensors</i> , 2020 , 20,	3.8	16
317	Biocarriers for biofilm immobilization in wastewater treatments: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1925-1945	13.3	16
316	La-doped cobalt supported on mesoporous alumina catalysts for improved methane dry reforming and coke mitigation. <i>Journal of the Energy Institute</i> , 2020 , 93, 1571-1580	5.7	16
315	Nanocomposites of Molybdenum Disulfide/Methoxy Polyethylene Glycol-co-Polypyrrole for Amplified Photoacoustic Signal. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29213-29219	9.5	16
314	Effect of thermolysis condition on characteristics and nonsteroidal anti-inflammatory drugs (NSAIDs) absorbability of Fe-MIL-88B-derived mesoporous carbons. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103356	6.8	16
313	Rhodium-oxide-coated indium tin oxide for enhancement of hole injection in organic light emitting diodes. <i>Applied Physics Letters</i> , 2005 , 87, 072105	3.4	16

312	SnO ₂ @WS ₂ /p-Si Heterostructure Photocathode for Photoelectrochemical Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 647-652	3.8	16
311	The war using microbes: A sustainable approach for wastewater management. <i>Environmental Pollution</i> , 2021 , 275, 116598	9.3	16
310	Green technology to optimize the extraction process of turmeric (<i>Curcuma longa</i> L.) oils. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 479, 012002	0.4	16
309	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	11	16
308	Controlling the shape of anatase nanocrystals for enhanced photocatalytic reduction of CO ₂ to methanol. <i>New Journal of Chemistry</i> , 2017 , 41, 5660-5668	3.6	15
307	Effective Photocatalytic Activity of Sulfate-Modified BiVO for the Decomposition of Methylene Blue Under LED Visible Light. <i>Materials</i> , 2019 , 12,	3.5	15
306	Ag ₀ -Ag ₂ O embedded nanocomposite hydrogel for adsorption-coupled-photocatalytic removal of triclosan. <i>Materials Letters</i> , 2020 , 276, 128169	3.3	15
305	High-performance organic light emitting diodes fabricated with a ruthenium oxide hole injection layer. <i>Metals and Materials International</i> , 2005 , 11, 411-414	2.4	15
304	Effects of anaerobic digestion of food waste on biogas production and environmental impacts: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2921-2939	13.3	15
303	Challenge beyond Graphene: Metal Oxide/Graphene/Metal Oxide Electrodes for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12932-9	9.5	15
302	Reforming of glycerol for hydrogen production over Ni based catalysts: Effect of support type. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 657-663	1.6	14
301	Recent progress of two-dimensional materials and metal-organic framework-based taste sensors. <i>Journal of the Korean Ceramic Society</i> , 2020 , 57, 353-367	2.2	14
300	Fibrous spherical Ni-M/ZSM-5 (M: Mg, Ca, Ta, Ga) catalysts for methane dry reforming: The interplay between surface acidity-basicity and coking resistance. <i>International Journal of Energy Research</i> , 2020 , 44, 5696-5712	4.5	14
299	Co substituted for Bi in BiVO and its enhanced photocatalytic activity under visible LED light irradiation.. <i>RSC Advances</i> , 2019 , 9, 23526-23534	3.7	14
298	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. <i>Bioresource Technology</i> , 2022 , 344, 126203	11	14
297	In situ formation of graphene/metal oxide composites for high-energy microsupercapacitors. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	14
296	Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory. <i>Small</i> , 2020 , 16, e2003225	11	14
295	Green ionic liquids and deep eutectic solvents for desulphurization, denitrification, biomass, biodiesel, bioethanol and hydrogen fuels: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1001-1023	13.3	14

294	Green Synthesis of Zinc Oxide Nanoparticles by <i>Justicia adhatoda</i> Leaves and Their Antimicrobial Activity. <i>Chemical Engineering and Technology</i> , 2021 , 44, 551-558	2	14
293	Technological perspectives for utilisation of waste glycerol for the production of biofuels: A review. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101902	7	14
292	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	8.4	14
291	(NH ₄) ₂ WS ₄ precursor as a hole-injection layer in organic optoelectronic devices. <i>Chemical Engineering Journal</i> , 2016 , 284, 285-293	14.7	13
290	Ammonia-Sensing Using a Composite of Graphene Oxide and Conducting Polymer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800037	2.5	13
289	A potassium-promoted Mo carbide catalyst system for hydrocarbon synthesis. <i>Catalysis Science and Technology</i> , 2012 , 2, 2066	5.5	13
288	Kinetics of the carbothermal synthesis of Mo carbide catalyst supported on various semiconductor oxides. <i>Fuel Processing Technology</i> , 2011 , 92, 1249-1260	7.2	13
287	Ethanol CO ₂ reforming on La ₂ O ₃ and CeO ₂ -promoted Cu/Al ₂ O ₃ catalysts for enhanced hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18398-18410	6.7	13
286	Recent trends in development of hematite (Fe ₂ O ₃) as an efficient photoanode for enhancement of photoelectrochemical hydrogen production by solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2020 , 46, 23334-23334	6.7	13
285	Novel micro-structured carbon-based adsorbents for notorious arsenic removal from wastewater. <i>Chemosphere</i> , 2021 , 272, 129653	8.4	13
284	Sequential production of hydrogen and methane by anaerobic digestion of organic wastes: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1043-1063	13.3	13
283	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8527-8540	13	13
282	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 4137	13.3	13
281	Influence of tin (Sn) doping on CoO for enhanced photocatalytic dye degradation. <i>Chemosphere</i> , 2021 , 277, 130325	8.4	13
280	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	12.8	13
279	Nanostructured magnetic inverse spinel Ni _{1-x} Zn _x ferrite as environmental friendly visible light driven photo-degradation of levofloxacin. <i>Chemical Engineering Research and Design</i> , 2021 , 175, 85-101	5.5	13
278	Enzyme-loaded nanoparticles for the degradation of wastewater contaminants: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2331-2350	13.3	13
277	CdSe Quantum Dots Doped WS ₂ Nanoflowers for Enhanced Solar Hydrogen Production. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800853	1.6	12

276	Mechanistic investigation of methane steam reforming over Ce-promoted Ni/SBA-15 catalyst. <i>Applied Petrochemical Research</i> , 2015 , 5, 393-404	1.9	12
275	Eco-friendly graphene synthesis on Cu foil electroplated by reusing Cu etchants. <i>Scientific Reports</i> , 2014 , 4, 4830	4.9	12
274	Thermal treatment of tar generated during co-gasification of coconut shell and charcoal. <i>Journal of Cleaner Production</i> , 2020 , 256, 120305	10.3	12
273	Recent advances in two-dimensional transition metal dichalcogenides as photoelectrocatalyst for hydrogen evolution reaction. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2597	3.5	12
272	Fe ₃ O ₄ mediated Z-scheme BiVO ₄ /Cr ₂ V ₄ O ₁₃ strongly coupled nano-heterojunction for rapid degradation of fluoxetine under visible light. <i>Materials Letters</i> , 2020 , 281, 128650	3.3	12
271	Two-Dimensional Metal-Organic Frameworks and Covalent-Organic Frameworks for Electrocatalysis: Distinct Merits by the Reduced Dimension. <i>Advanced Energy Materials</i> , 2003990	21.8	12
270	Environmental friendly and robust Mg _{0.5} -xCu _x Zn _{0.5} Fe ₂ O ₄ spinel nanoparticles for visible light driven degradation of Carbamazepine: Band shift driven by dopants. <i>Materials Letters</i> , 2021 , 284, 129003	3.3	12
269	A review on nano-catalysts and biochar-based catalysts for biofuel production. <i>Fuel</i> , 2021 , 306, 121632	7.1	12
268	Evaluating green silver nanoparticles as prospective biopesticides: An environmental standpoint. <i>Chemosphere</i> , 2022 , 286, 131761	8.4	12
267	C-H versus O-H bond scission in methanol decomposition on Pt(111): Role of the dispersion interaction. <i>Applied Surface Science</i> , 2019 , 481, 1327-1334	6.7	11
266	All-Solution-Processed BiVO ₄ /TiO ₂ Photoanode with NiCo ₂ O ₄ Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5646-5656	6.1	11
265	Response surface modeling and optimizing conditions for anthocyanins extraction from purple sweet potato (<i>Ipomoea batatas</i> (L.) Lam) grown in Lam Dong province, Vietnam. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 479, 012012	0.4	11
264	Photocatalytic degradation of 2,4-dichlorophenol using bio-green assisted TiO ₂ -CeO nanocomposite system. <i>Environmental Research</i> , 2021 , 195, 110852	7.9	11
263	Performance study on adsorptive removal of acetaminophen from wastewater using silica microspheres: Kinetic and isotherm studies.. <i>Chemosphere</i> , 2021 , 272, 129896	8.4	11
262	A fuzzy cognitive map approach to predict the hazardous effects of malathion to environment (air, water and soil). <i>Chemosphere</i> , 2021 , 263, 127926	8.4	11
261	Recent development of high-performance photocatalysts for N ₂ fixation: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104997	6.8	11
260	Tungsten Trioxide Doped with CdSe Quantum Dots for Smart Windows. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43785-43791	9.5	11
259	Application of biomass derived products in mid-size automotive industries: A review. <i>Chemosphere</i> , 2021 , 280, 130723	8.4	11

258	A review on the microbial degradation of chlorpyrifos and its metabolite TCP. <i>Chemosphere</i> , 2021 , 283, 131447	8.4	11
257	Recent advances on nickel nano-ferrite: A review on processing techniques, properties and diverse applications. <i>Chemical Engineering Research and Design</i> , 2021 , 175, 182-208	5.5	11
256	Accelerated charge transfer in well-designed S-scheme Fe@TiO/Boron carbon nitride heterostructures for high performance tetracycline removal and selective photo-reduction of CO greenhouse gas into CH fuel. <i>Chemosphere</i> , 2022 , 287, 132301	8.4	11
255	Emerging cocatalysts in TiO ₂ -based photocatalysts for light-driven catalytic hydrogen evolution: Progress and perspectives. <i>Fuel</i> , 2022 , 307, 121745	7.1	11
254	Integrated catalytic hydrodeoxygenation of Napier grass pyrolysis vapor using a Ni ₂ P/C catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 170-178	6	10
253	The role of nanotechnology on post-combustion CO ₂ absorption in process industries. <i>International Journal of Low-Carbon Technologies</i> , 2020 , 15, 361-367	2.8	10
252	Low Temperature Solution-Processable Cesium Lead Bromide Microcrystals for Light Conversion. <i>Crystal Growth and Design</i> , 2018 , 18, 3161-3166	3.5	10
251	Effect of Ammonium Halide Additives on the Performance of Methyl Amine Based Perovskite Solar Cells. <i>Materials</i> , 2018 , 11,	3.5	10
250	Recent Progress in Carbon-Based Buffer Layers for Polymer Solar Cells. <i>Polymers</i> , 2019 , 11,	4.5	10
249	Thermo-Catalytic Methane Decomposition for Hydrogen Production: Effect of Palladium Promoter on Ni-based Catalysts. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2016 , 11, 191	1.7	10
248	Recent Advances in the Electrochemical Sensing of Venlafaxine: An Antidepressant Drug and Environmental Contaminant. <i>Sensors</i> , 2020 , 20,	3.8	10
247	Eco-friendly biosynthesis metallic silver nanoparticles using Aegle marmelos (Indian bael) and its clinical and environmental applications. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	10
246	Ultrasonic assisted agro waste biomass for rapid removal of Cd(II) ions from aquatic environment: Mechanism and modelling analysis. <i>Chemosphere</i> , 2021 , 271, 129484	8.4	10
245	Cobalt and nickel oxides supported activated carbon as an effective photocatalysts for the degradation Methylene Blue dye from aquatic environment. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 21, 100406	3.9	10
244	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. <i>Advanced Functional Materials</i> , 2021 , 31, 2103409	15.6	10
243	Review on the catalytic tri-reforming of methane - Part I: Impact of operating conditions, catalyst deactivation and regeneration. <i>Applied Catalysis A: General</i> , 2021 , 621, 118202	5.1	10
242	Ligand-Assisted Sulfide Surface Treatment of CsPbI ₃ Perovskite Quantum Dots to Increase Photoluminescence and Recovery. <i>ACS Photonics</i> , 2021 , 8, 1979-1987	6.3	10
241	Synthesis of MoS _x /Ni-metal-organic framework-74 composites as efficient electrocatalysts for hydrogen evolution reactions. <i>International Journal of Energy Research</i> , 2021 , 45, 9638-9647	4.5	10

240	A review on critical assessment of advanced bioreactor options for sustainable hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7113-7136	6.7	10
239	Mitigation of organophosphorus insecticides from environment: Residual detoxification by bioweapon catalytic scavengers. <i>Environmental Research</i> , 2021 , 200, 111368	7.9	10
238	Sustainable approach on removal of toxic metals from electroplating industrial wastewater using dissolved air flotation. <i>Journal of Environmental Management</i> , 2021 , 295, 113147	7.9	10
237	Toward practical solar-driven photocatalytic water splitting on two-dimensional MoS ₂ based solid-state Z-scheme and S-scheme heterostructure. <i>Fuel</i> , 2021 , 303, 121302	7.1	10
236	Engineering conversion of Asteraceae plants into biochars for exploring potential applications: A review. <i>Science of the Total Environment</i> , 2021 , 797, 149195	10.2	10
235	Adsorptive removal of Pb(II) ions onto surface modified adsorbents derived from Cassia fistula seeds: Optimization and modelling study. <i>Chemosphere</i> , 2021 , 283, 131276	8.4	10
234	Carbon sequestration through hydrothermal carbonization of expired fresh milk and its application in supercapacitor. <i>Biomass and Bioenergy</i> , 2020 , 143, 105836	5.3	9
233	Control of the Crystal Growth Shape in CH ₃ NH ₃ PbBr ₃ Perovskite Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 8169-8174	1.3	9
232	Graphene Oxide Inserted Poly(N-Vinylcarbazole)/Vanadium Oxide Hole Transport Heterojunctions for High-Efficiency Quantum-Dot Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700476	4.6	9
231	Enhancement of optical properties in organic light emitting diodes using the MgAl alloy cathode and IrOx-coated indium tin oxide anode. <i>Applied Physics Letters</i> , 2006 , 88, 112106	3.4	9
230	Green synthesis of ZrO nanoparticles and nanocomposites for biomedical and environmental applications: a review.. <i>Environmental Chemistry Letters</i> , 2022 , 1-23	13.3	9
229	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 632, 127767	5.1	9
228	Synthesis of Ag ₂ O Coated TiO ₂ Nanoparticles by Sonochemically Activated Methods for Enhanced Photocatalytic Activities. <i>Topics in Catalysis</i> , 2020 , 63, 1056-1065	2.3	9
227	Comparison of surface-engineered superparamagnetic nanosorbents with low-cost adsorbents of cellulose, zeolites and biochar for the removal of organic and inorganic pollutants: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3181-3208	13.3	9
226	Struvite recovery from swine wastewater using fluidized-bed homogeneous granulation process. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105019	6.8	9
225	The sunflower plant family for bioenergy, environmental remediation, nanotechnology, medicine, food and agriculture: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3701-3726	13.3	9
224	High conductivity and surface area of Ti _{0.7} W _{0.3} O ₂ mesoporous nanostructures support for Pt toward enhanced methanol oxidation in DMFCs. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20933-20943	6.7	9
223	Anti-icing performance on aluminum surfaces and proposed model for freezing time calculation. <i>Scientific Reports</i> , 2021 , 11, 3641	4.9	9

222	Optimization of Pyrolysis Parameters for Production of Biochar From Banana Peels: Evaluation of Biochar Application on the Growth of <i>Ipomoea aquatica</i> . <i>Frontiers in Energy Research</i> , 2021 , 8,	3.8	9
221	Green synthesis of white light emitting carbon quantum dots: Fabrication of white fluorescent film and optical sensor applications. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125091	12.8	9
220	Recent progress in green and biopolymer based photocatalysts for the abatement of aquatic pollutants. <i>Environmental Research</i> , 2021 , 199, 111324	7.9	9
219	Metal salt-modified biochars derived from agro-waste for effective congo red dye removal. <i>Environmental Research</i> , 2021 , 200, 111492	7.9	9
218	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. <i>Journal of Cleaner Production</i> , 2021 , 129015	10.3	9
217	Transition metal dichalcogenide-based composites for hydrogen production. <i>Functional Composites and Structures</i> , 2019 , 1, 012001	3.5	8
216	Backpropagation neural networks modelling of photocatalytic degradation of organic pollutants using TiO ₂ -based photocatalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2739	3.5	8
215	Improvement on Coke Formation of CaO-Ni/Al ₂ O ₃ Catalysts in Ethylene Production via Dehydration of Ethanol. <i>Procedia Engineering</i> , 2016 , 148, 1289-1294		8
214	Effects of Functional Groups in Unsymmetrical Distyrylbiphenyl on the Performances of Blue Organic Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9767-9771	3.8	8
213	High-brightness GaN-based light-emitting diode with indium tin oxide based transparent ohmic contact. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 1851		8
212	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing.. <i>Nano-Micro Letters</i> , 2022 , 14, 58	19.5	8
211	Adsorption behavior of Congo red dye from aqueous solutions onto exfoliated graphite as an adsorbent: Kinetic and isotherm studies. <i>Materials Today: Proceedings</i> , 2019 , 18, 4449-4457	1.4	8
210	Enhanced photocatalytic degradation of diclofenac by Sn _{0.15} Mn _{0.85} Fe ₂ O ₄ catalyst under solar light. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104875	6.8	8
209	Hydrothermal production of algal biochar for environmental and fertilizer applications: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1025-1042	13.3	8
208	A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases. <i>Chemosphere</i> , 2021 , 284, 131344	8.4	8
207	Current advances in microbial fuel cell technology toward removal of organic contaminants - A review. <i>Chemosphere</i> , 2022 , 287, 132186	8.4	8
206	Influence of MoS ₂ Nanosheet Size on Performance of Drilling Mud. <i>Polymers</i> , 2019 , 11,	4.5	7
205	Co-hydrothermal gasification of <i>Scenedesmus</i> sp. with sewage sludge for bio-hydrogen production using novel solid catalyst derived from carbon-zinc battery waste. <i>Bioresource Technology Reports</i> , 2020 , 11, 100459	4.1	7

204	Recent Advances in Selective Photo-Epoxidation of Propylene: A Review. <i>Catalysts</i> , 2020 , 10, 87	4	7
203	Enhanced Hydrogen Generation from Empty Fruit Bunches by Charcoal Addition into a Downdraft Gasifier. <i>Chemical Engineering and Technology</i> , 2020 , 43, 762-769	2	7
202	Nanocomposite Synthesis of Nanodiamond and Molybdenum Disulfide. <i>Nanomaterials</i> , 2019 , 9,	5.4	7
201	Novel synthesis methods and applications of MXene-based nanomaterials (MBNs) for hazardous pollutants degradation: Future perspectives.. <i>Chemosphere</i> , 2022 , 293, 133542	8.4	7
200	Recent Advances in Steam Reforming of Glycerol for Syngas Production 2020 , 399-425		7
199	Technological Advancements in the Production and Application of Biomethanol 2020 , 127-139		7
198	Emerging photocatalysts for air purification. <i>Materials Letters</i> , 2021 , 288, 129355	3.3	7
197	Aromatic substituents for prohibiting side-chain packing and π -stacking in tin-cored tetrahedral stilbenoids. <i>Electronic Materials Letters</i> , 2016 , 12, 388-398	2.9	7
196	Grain Boundaries Boost Oxygen Evolution Reaction in NiFe Electrocatalysts.. <i>Small Methods</i> , 2021 , 5, e2000755	12.8	7
195	Graphene-based materials for environmental applications: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3631-3644	13.3	7
194	Comment on "removal of hexavalent chromium by biochar supported nZVI composite: Batch and fixed-bed column evaluations, mechanisms, and secondary contamination prevention". <i>Chemosphere</i> , 2019 , 233, 988-990	8.4	6
193	Facile solvothermal synthesis of highly active monoclinic scheelite BiVO ₄ for photocatalytic degradation of methylene blue under white LED light irradiation. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 8388-8394	5.9	6
192	Selected Electrochemical Properties of 4,4'-((1E,1'E)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(-,di-p-tolylaniline)),5 towards Perovskite Solar Cells with 14.4% Efficiency. <i>Materials</i> , 2020 , 13,		6
191	Photoelectrochemical Reduction of CO ₂ to Syngas by Reduced Ag Catalysts on Si Photocathodes. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3487	2.6	6
190	Grid-Connected Photovoltaic Systems with Single-Axis Sun Tracker: Case Study for Central Vietnam. <i>Energies</i> , 2020 , 13, 1457	3.1	6
189	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H ₂ and O ₂ . <i>Catalysts</i> , 2020 , 10, 442	4	6
188	Evaluation of Ba-promoted Mo carbide catalyst for Fischer-Tropsch synthesis. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 1358-1363	3.5	6
187	In situ determination of interface dipole energy in organic light emitting diodes with iridium interfacial layer using synchrotron radiation photoemission spectroscopy. <i>Applied Physics Letters</i> , 2006 , 89, 223515	3.4	6

186	Surface-Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts.. <i>Small</i> , 2022 , e2105611	11	6
185	ZnO-based heterostructures as photocatalysts for hydrogen generation and depollution: a review. <i>Environmental Chemistry Letters</i> , 2022 , 20, 1047	13.3	6
184	Improvements in hydrogen production from methane dry reforming on filament-shaped mesoporous alumina-supported cobalt nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020 , 46, 24781-24781	6.7	6
183	Halide Perovskites: Organic/Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses (Adv. Mater. 42/2018). <i>Advanced Materials</i> , 2018 , 30, 1870317	24	6
182	Application of microwave-assisted technology: A green process to produce ginger products without waste. <i>Journal of Food Process Engineering</i> , 2019 , 42, e12996	2.4	5
181	High Photocatalytic Activity of Oliver-Like BiVO ₄ for Rhodamine B Degradation under Visible Light Irradiation. <i>Applied Mechanics and Materials</i> , 2018 , 876, 52-56	0.3	5
180	A Simple Approach for Immobilization of Fe-Core/Au-Shell Magnetic Nanoparticles on Multi-Walled Carbon Nanotubes via Cu(I) Huisgen Cycloaddition: Preparation and Characterization. <i>Solid State Phenomena</i> , 2018 , 279, 187-191	0.4	5
179	Flexible Organic Light-Emitting Diodes Using a Metal Peel-Off Method. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1836-1838	2.2	5
178	Compressive Strength Evaluation of Ordinary Portland Cement Mortar Blended with Hydrogen Nano-Bubble Water and Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 647-652	1.3	5
177	Green remediation of pharmaceutical wastes using biochar: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	5
176	A Review of Recent Progress on Photocatalytic Carbon dioxide Reduction into Sustainable Energy Products using Carbon Nitride. <i>Chemical Engineering Research and Design</i> , 2021 ,	5.5	5
175	Synthesis, characterization, and application of ZnFe ₂ O ₄ @ZnO nanoparticles for photocatalytic degradation of Rhodamine B under visible-light illumination. <i>Environmental Technology and Innovation</i> , 2022 , 25, 102130	7	5
174	MXenes based nano-heterojunctions and composites for advanced photocatalytic environmental detoxification and energy conversion: A review. <i>Chemosphere</i> , 2021 , 291, 132923	8.4	5
173	Electrochemical conversion of carbon dioxide over silver-based catalysts: Recent progress in cathode structure and interface engineering. <i>Chemical Engineering Science</i> , 2021 , 234, 116403	4.4	5
172	Functionalization of halloysite nanotube surfaces via controlled living radical polymerization: covalent immobilization of penicillin for a bioactive interface. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1416-1424	3.5	5
171	Data-driven prediction of biomass pyrolysis pathways toward phenolic and aromatic products. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104836	6.8	5
170	Ammonia-Sensing Using a Composite of Graphene Oxide and Conducting Polymer (Phys. Status Solidi RRL 5/2018). <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1870317	2.5	5
169	Recent progress and challenges in photocatalytic water splitting using layered double hydroxides (LDH) based nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	5

168	Cephalexin removal by a novel Cu-Zn bionanocomposite biosynthesized in secondary metabolic products of <i>Aspergillus arenarioides</i> EAN603 with pumpkin peels medium: Optimization, kinetic and artificial neural network models. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126500	12.8	5
167	Green approach and strategies for wastewater treatment using bioelectrochemical systems: A critical review of fundamental concepts, applications, mechanism, and future trends. <i>Chemosphere</i> , 2021 , 285, 131373	8.4	5
166	Prospects of MXenes in energy storage applications.. <i>Chemosphere</i> , 2022 , 134225	8.4	5
165	Chemical Synthesis and Characterization of Poly(poly(ethylene glycol) methacrylate)-Grafted CdTe Nanocrystals via RAFT Polymerization for Covalent Immobilization of Adenosine. <i>Polymers</i> , 2019 , 11,	4.5	4
164	Fabrication of Ag-photodeposited TiO ₂ /cordierite honeycomb monolith photoreactors for 2-naphthol degradation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2628	3.5	4
163	Ohmic contacts for high power LEDs. <i>Physica Status Solidi A</i> , 2004 , 201, 2831-2836		4
162	Ionic liquids for the inhibition of gas hydrates. A review. <i>Environmental Chemistry Letters</i> , 1	13.3	4
161	A comprehensive review on the removal of noxious pollutants using carrageenan based advanced adsorbents. <i>Chemosphere</i> , 2021 , 289, 133100	8.4	4
160	Promotion of methane production by magnetite via increasing acetogenesis revealed by metagenome-assembled genomes.. <i>Bioresource Technology</i> , 2021 , 345, 126521	11	4
159	Research on Lemongrass Oil Extraction Technology (Hydrodistillation, Microwave-Assisted Hydrodistillation). <i>Indonesian Journal of Chemistry</i> , 2019 , 19, 1000	1.5	4
158	HYDROGEN PRODUCTION FROM ETHANOL DRY REFORMING OVER LANTHANIA-PROMOTED Co/Al ₂ O ₃ CATALYST. <i>IJUM Engineering Journal</i> , 2018 , 19, 24-33	1.2	4
157	Toward Multicomponent Single-Atom Catalysis for Efficient Electrochemical Energy Conversion. <i>ACS Materials Au</i> ,		4
156	Optimization of tetracycline adsorption onto zeoliticimidazolate framework-based carbon using response surface methodology. <i>Surfaces and Interfaces</i> , 2021 , 28, 101549	4.1	4
155	Nano-structured dynamic Schiff base cues as robust self-healing polymers for biomedical and tissue engineering applications: a review. <i>Environmental Chemistry Letters</i> , 2021 , 1	13.3	4
154	A Spotlight on Butanol and Propanol as Next-Generation Synthetic Fuels 2020 , 105-126		4
153	Integrated farming system producing zero emissions and sustainable livelihood for small-scale cattle farms: Case study in the Mekong Delta, Vietnam. <i>Environmental Pollution</i> , 2020 , 265, 114853	9.3	4
152	Degradation Behaviors of Solid Oxide Fuel Cell Stacks in Steady-State and Cycling Conditions. <i>Energy & Fuels</i> , 2020 , 34, 14864-14873	4.1	4
151	Unraveling the effect of Al doping on CO adsorption at ZnO(101 0).. <i>RSC Advances</i> , 2020 , 10, 40663-40672	3.7	4

150	Syngas production from ethanol dry reforming using Cu-based perovskite catalysts promoted with rare earth metals. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	4
149	Core-shell architecture of NiSe ₂ nanoparticles@nitrogen-doped carbon for hydrogen evolution reaction in acidic and alkaline media. <i>International Journal of Energy Research</i> , 2021 , 45, 20463	4.5	4
148	Anthocyanins extraction from Purple Sweet Potato (<i>Ipomoea batatas</i> (L.) Lam): The effect of pH values on natural color. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012031	0.4	4
147	Effect of various factors on extraction efficiency of total anthocyanins from Butterfly pea (<i>Clitoria ternatea</i> L. Flowers) in Southern Vietnam. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 544, 012013	0.4	4
146	Extraction of anthocyanins from Butterfly pea (<i>Clitoria ternatea</i> L. Flowers) in Southern Vietnam: Response surface modeling for optimization of the operation conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012032	0.4	4
145	High conductivity of novel Ti _{0.9} Ir _{0.1} O ₂ support for Pt as a promising catalyst for low-temperature fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20944-20952	6.7	4
144	Hydrogen production via CO ₂ CH ₄ reforming over cobalt-supported mesoporous alumina: A kinetic evaluation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24742-24753	6.7	4
143	Coke-resistant Y ₂ O ₃ -promoted cobalt supported on mesoporous alumina for enhanced hydrogen production. <i>Journal of the Energy Institute</i> , 2021 , 94, 272-284	5.7	4
142	Remote Switching of Elastic Movement of Decorated Ligand Nanostructures Controls the Adhesion-Regulated Polarization of Host Macrophages. <i>Advanced Functional Materials</i> , 2021 , 31, 2008698	15.6	4
141	Ethylene glycol dry reforming for syngas generation on Ce-promoted Co/Al ₂ O ₃ catalysts. <i>Applied Petrochemical Research</i> , 2018 , 8, 253-261	1.9	4
140	State-of-the-Art of the Synthesis and Applications of Sulfonated Carbon-Based Catalysts for Biodiesel Production: a Review. <i>Energy Technology</i> , 2021 , 9, 2100303	3.5	4
139	SARS-CoV-2 variants and environmental effects of lockdowns, masks and vaccination: a review. <i>Environmental Chemistry Letters</i> , 2021 , 1-12	13.3	4
138	Significance of re-engineered zeolites in climate mitigation [A review for carbon capture and separation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105957	6.8	4
137	A state-of-the-art review on microbial desalination cells. <i>Chemosphere</i> , 2022 , 288, 132386	8.4	4
136	Analysis and effective separation of toxic pollutants from water resources using MBBR: Pathway prediction using alkaliphilic <i>P. mendocina</i> . <i>Science of the Total Environment</i> , 2021 , 797, 149135	10.2	4
135	Evaluate the role of biochar during the organic waste composting process: A critical review.. <i>Chemosphere</i> , 2022 , 134488	8.4	4
134	Submolecular Tuning of Ligand Size and Spacing for Dynamic Macrophage Modulation.. <i>Advanced Materials</i> , 2022 , e2110340	24	4
133	Novel Exopolysaccharide Produced from Fermented Bamboo Shoot-Isolated. <i>Polymers</i> , 2020 , 12,	4.5	3

132	Kinetic and CFD Modeling of Exhaust Gas Reforming of Natural Gas in a Catalytic Fixed-Bed Reactor for Spark Ignition Engines. <i>Chemical Engineering and Technology</i> , 2020 , 43, 705-718	2	3
131	Hierarchical nanorod-based TiO ₂ microspheres for superior electrochemical energy storage. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 820, 32-40	4.1	3
130	Production of syngas from ethanol CO ₂ reforming on La-doped Cu/Al ₂ O ₃ : Impact of promoter loading 2019 ,		3
129	Synthesized BiVO ₄ was by the co-precipitation method for Rhodamine B degradation under visible light. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012058	0.4	3
128	Comparison of metal chloride-doped graphene electrode fabrication processes for GaN-based light emitting diodes. <i>RSC Advances</i> , 2014 , 4, 51215-51219	3.7	3
127	Autophagy in RAW264.7 Cells Treated with Surface-Functionalized Graphene Oxides. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	3
126	Mesoporous alumina: A comprehensive review on synthesis strategies, structure, and applications as support for enhanced H ₂ generation via CO ₂ -CH ₄ reforming. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	3
125	Hydrogen: fuel of the near future 2020 , 1-20		3
124	Bio-hydrogen production from steam reforming of liquid biomass wastes and biomass-derived oxygenates: A review. <i>Fuel</i> , 2021 , 122623	7.1	3
123	Strong Fermi-level pinning at metal contacts to halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15212-15220	7.1	3
122	Sustainable nanotechnology based wastewater treatment strategies: achievements, challenges and future perspectives. <i>Chemosphere</i> , 2021 , 132606	8.4	3
121	Enhanced hydrogen-assisted cracking of 1,3,5-triisopropylbenzene over fibrous silica ZSM-5: Influence of co-surfactant during synthesis. <i>International Journal of Hydrogen Energy</i> , 2020 ,	6.7	3
120	Applying a Novel Sequential Double-Column Fluidized Bed Crystallization Process to the Recovery of Nitrogen, Phosphorus, and Potassium from Swine Wastewater. <i>ACS ES&T Water</i> , 2021 , 1, 707-718		3
119	Performance Correlation of Self-Supported Electrodes in Half-Cell and Single-Cell Tests for Water Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15815-15821	8.3	3
118	Origin of Low Thermal Conductivity in In ₄ Se ₃ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 12549-12556	6.1	3
117	Hydrogen evolving electrode with low Pt loading fabricated by repeated pulse electrodeposition. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1340-1345	2.8	3
116	Surface-tailored graphene channels. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	3
115	Recovery of Magnesium from Industrial Effluent and Its Implication on Carbon Capture and Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6732-6740	8.3	3

114	In situ sintered silver decorated 3D structure of cellulose scaffold for highly thermoconductive electromagnetic interference shielding epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51193	2.9	3
113	Greenhouse gas mitigation and hydrogen generation via enhanced ethylene glycol dry reforming on La-promoted Co/Al ₂ O ₃ catalyst. <i>Chemical Engineering Research and Design</i> , 2021 , 150, 356-364	5.5	3
112	Tuning of Graphene Work Function by Alkyl Chain Length in Amine-Based Compounds. <i>Electronic Materials Letters</i> , 2019 , 15, 141-148	2.9	3
111	Alkaline Hydrothermal Synthesis, Characterization, and Photocatalytic Activity of TiO ₂ Nanostructures: The Effect of Initial TiO ₂ Phase. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 1511-1519	1.3	3
110	Elimination of energy-consuming mechanical stirring: Development of auto-suspending ZnO-based photocatalyst for organic wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124532	12.8	3
109	Highly stable electrochromic cells based on amorphous tungsten oxides prepared using a solution-annealing process. <i>International Journal of Energy Research</i> , 2021 , 45, 8061-8072	4.5	3
108	Silver nanowires decorated recycled cigarette filters based epoxy composites with high through-plane thermal conductivity and efficient electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106485	8.4	3
107	Lewis acid Ni/Al-MCM-41 catalysts for H-free deoxygenation of oil to biofuels.. <i>RSC Advances</i> , 2021 , 11, 21885-21896	3.7	3
106	High Photocatalytic Performance of Pd/PdO-Supported BiVO ₄ Nanoparticles for Rhodamine B Degradation under Visible LED Light Irradiation. <i>ChemistrySelect</i> , 2019 , 4, 6048-6054	1.8	2
105	Comparative study on removal of Monodyes by using Ni-Al layered double hydroxides. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 736, 022068	0.4	2
104	Development of Response Surface Methodology for Optimization of Congo Red Adsorption Utilizing Exfoliated Graphite As An Efficient Adsorbent. <i>Materials Today: Proceedings</i> , 2020 , 22, 2341-2350	1.4	2
103	Linearized and nonlinearized modellings for comparative uptake assessment of metal-organic framework-derived nanocomposite towards sulfonamide antibiotics. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 63448-63463	5.1	2
102	Data Storage: Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching (Adv. Funct. Mater. 5/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870029	15.6	2
101	Synthesis of pyrrolidinofullerenes and their applications as an n-type component in organic transistors and polymer solar cells. <i>Polymer Bulletin</i> , 2016 , 73, 2477-2484	2.4	2
100	New direction in research on extraction of Citrus aurantifolia (Lemon fruit) essential oil grown in Mekong Delta - Vietnam via microwave-assisted hydrodistillation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012038	0.4	2
99	Response Surface Methodology for Optimization Studies of Microwave-assisted hydrodistillation of essential oil from Vietnamese Citrus aurantifolia (Lemon fruit). <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012042	0.4	2
98	Catalytic performance of yttrium-doped co/mesoporous alumina catalysts for methane dry reforming 2019 ,		2
97	Response surface modeling and optimizing conditions for anthocyanins extraction from Hibiscus sabdariffa L. (Roselle) grown in Lam Dong, Vietnam. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 544, 012016	0.4	2

96	Kinetics, Isotherm, Thermodynamics, and Recyclability of Exfoliated Graphene-Decorated MnFe ₂ O ₄ Nanocomposite Towards Congo Red Dye. <i>Journal of Chemistry</i> , 2019 , 2019, 1-16	2.3	2
95	An Evaluation of Fish Scales as Potential Adsorbents: pH and Concentration Effect. <i>Applied Mechanics and Materials</i> , 2014 , 625, 73-76	0.3	2
94	Evaluation of Promoted Mo Carbide Catalysts for Fischer-Tropsch Synthesis: Synthesis, Characterisation, and Time-on-Stream Behaviour. <i>ACS Symposium Series</i> , 2011 , 155-184	0.4	2
93	P-107: Mechanism of Peel-Off of Metal Substrate for Flexible Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2009 , 40, 1516	0.5	2
92	Invasive plants as biosorbents for environmental remediation: a review.. <i>Environmental Chemistry Letters</i> , 2022 , 20, 1-31	13.3	2
91	Effect of microwave/hydrothermal combined ionic liquid pretreatment on straw: Rumen anaerobic fermentation and enzyme hydrolysis. <i>Environmental Research</i> , 2021 , 112453	7.9	2
90	Metallic and bimetallic phosphides-based nanomaterials for photocatalytic hydrogen production and water detoxification: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	2
89	Green technology for sustainable surface protection of steel from corrosion: a review. <i>Environmental Chemistry Letters</i> , 2022 , 20, 929	13.3	2
88	Thermocarburization Synthesis of Silica-Supported Mo ₂ C Catalyst Using H ₂ /Propane Mixture. <i>Recent Patents on Materials Science</i> , 2010 , 1, 179-185	0.3	2
87	Selective Hydrogenation of Carbon Dioxide into Methanol. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 111-157	0.8	2
86	Spent coffee grounds biochar from torrefaction as a potential adsorbent for spilled diesel oil recovery and as an alternative fuel. <i>Energy</i> , 2021 , 122467	7.9	2
85	Application of carbon-based smart nanocomposites for hydrogen production: current progress, challenges, and prospects 2020 , 321-336		2
84	Synthesis, Characterisation, and Performance Evaluation of Promoted Ni-Based Catalysts for Thermocatalytic Decomposition of Methane. <i>ChemistrySelect</i> , 2020 , 5, 11471-11482	1.8	2
83	Novel evaluation enhancement role of poly (1-(3-nitrophenyl)-1H-1,2,3-triazol-4-yl) acrylate materials for propellant composite formulation. <i>Materials Letters</i> , 2020 , 280, 128585	3.3	2
82	Decoding the Capability of W1 Isolated from Soybean Whey in Producing an Exopolysaccharide. <i>ACS Omega</i> , 2020 , 5, 33387-33394	3.9	2
81	Converting biomass of agrowastes and invasive plant into alternative materials for water remediation. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
80	Tailoring the Structure of Low-Dimensional Halide Perovskite through a Room Temperature Solution Process: Role of Ligands.. <i>Small Methods</i> , 2021 , 5, e2100054	12.8	2
79	BoxBehnken design, kinetic, and isotherm models for oxytetracycline adsorption onto Co-based ZIF-67. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 2347-2359	3.3	2

78	C-doped SnO ₂ nanostructure/MoS ₂ /p-Si electrodes for visible light-driven photoelectrochemical hydrogen evolution reaction. <i>International Journal of Energy Research</i> , 2021 , 45, 18201-18211	4.5	2
77	A Simple Route for the Synthesis of Fe/C composite derived from the metal-organic framework MIL-53 (Fe). <i>Materials Today: Proceedings</i> , 2019 , 18, 2422-2429	1.4	2
76	Effects of various solvent concentration, liquid-solid ratio, temperatures and time values on the extraction yield of anthocyanin from Vietnam Hibiscus sabdariffa L. (Roselle). <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012033	0.4	2
75	A Novel Carbon-Resistant Perovskite Catalyst for Hydrogen Production Using Methane Dry Reforming. <i>Topics in Catalysis</i> , 2021 , 64, 348-356	2.3	2
74	Inactivation of fungal spores from clinical environment by silver bio-nanoparticles; optimization, artificial neural network model and mechanism. <i>Environmental Research</i> , 2022 , 204, 111926	7.9	2
73	Graphitic carbon nitride based immobilized and non-immobilized floating photocatalysts for environmental remediation.. <i>Chemosphere</i> , 2022 , 134229	8.4	2
72	An overview of MXene-Based nanomaterials and their potential applications towards hazardous pollutant adsorption.. <i>Chemosphere</i> , 2022 , 298, 134221	8.4	2
71	Electrodeposition: An efficient method to fabricate self-supported electrodes for electrochemical energy conversion systems. <i>Exploration</i> , 20210077		2
70	Graphene Oxide: Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide (Adv. Mater. 15/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
69	A Facile Synthesis and Properties of Bismuth Vanadate (BiVO ₄) Photocatalyst by Hydrothermal Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012059	0.4	1
68	Functionalizing Multifunctional Fe ₃ O ₄ Nanoparticle-Based Biocompatible, Magnetic and Photoluminescent Nanohybrids: Preparation and Characterization. <i>Asian Journal of Chemistry</i> , 2019 , 31, 767-772	0.4	1
67	Conversion of Biogas to Syngas via Catalytic Carbon Dioxide Reforming Reactions: An Overview of Thermodynamic Aspects, Catalytic Design, and Reaction Kinetics 2020 , 427-456		1
66	2D and Quasi-2D Halide Perovskites: Applications and Progress. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2070015	2.5	1
65	The Synthesis of N-(Pyridin-2-yl)-Benzamides from Aminopyridine and Trans-Beta-Nitrostyrene by Fe ₂ Ni-BDC Bimetallic Metal-Organic Frameworks. <i>Processes</i> , 2019 , 7, 789	2.9	1
64	Ion-beam-irradiated CYTOP-transferred graphene for liquid crystal cells. <i>Electronic Materials Letters</i> , 2017 , 13, 277-285	2.9	1
63	Syngas Production from CO ₂ Reforming and CO ₂ -steam Reforming of Methane over Ni/Ce-SBA-15 Catalyst. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 206, 012017	0.4	1
62	Transparent Ohmic Contacts on p-GaN Using an Indium Tin Oxide Overlayer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 214-218		1
61	Low-Crystalline AuCuIn Catalyst for Gaseous CO Electrolyzer.. <i>Advanced Science</i> , 2022 , e2104908	13.6	1

60	Development of CuN electrocatalyst for hydrogen evolution reaction in alkaline medium.. <i>Scientific Reports</i> , 2022 , 12, 2004	4.9	1
59	Biosorptive ascendency of plant based biosorbents in removing hexavalent chromium from aqueous solutions - Insights into isotherm and kinetic studies.. <i>Environmental Research</i> , 2022 , 112902	7.9	1
58	Advanced catalysts and effect of operating parameters in ethanol dry reforming for hydrogen generation. A review. <i>Environmental Chemistry Letters</i> ,1	13.3	1
57	A global systematic review of the concentrations of Malathion in water matrices: Meta-analysis, and probabilistic risk assessment. <i>Chemosphere</i> , 2021 , 132789	8.4	1
56	Metal-Organic-Framework- and MXene-Based Taste Sensors and Glucose Detection. <i>Sensors</i> , 2021 , 21,	3.8	1
55	Sustainable approaches for nickel removal from wastewater using bacterial biomass and nanocomposite adsorbents: A review. <i>Chemosphere</i> , 2021 , 132862	8.4	1
54	Conversion of Carbon Dioxide into Formaldehyde. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 159-183	0.8	1
53	Adsorption Behaviours of Anionic Azo Dye (Congo Red) from Aqueous Solution on Magnetic Expanded Graphite Material (EG@CoFe ₂ O ₄) Composites. <i>Asian Journal of Chemistry</i> , 2020 , 32, 865-870	0.4	1
52	Design of Zeolite-Covalent Organic Frameworks for Methane Storage. <i>Materials</i> , 2020 , 13,	3.5	1
51	Hydrogen production via thermocatalytic decomposition of methane over Ni-Cu-Pd/Al ₂ O ₃ catalysts. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 736, 042006	0.4	1
50	CO ₂ Reforming of CH ₄ on Mesoporous Alumina-Supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading. <i>Topics in Catalysis</i> , 2021 , 64, 338-347	2.3	1
49	Stem Cell Substrates: Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells (Adv. Healthcare Mater. 16/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 2144-2144	10.1	1
48	Preparation and Determination of Total Anthocyanins extraction from the Skin of Vigna cylindrica Skeels (Dolichos catjang Burm. f). <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012037	0.4	1
47	Application of BoxBehnken design with Response Surface Methodology for Modeling and Optimizing Microwave-assisted Hydro-distillation of Essential Oil from Citrus reticulata Blanco Peel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012043	0.4	1
46	Visible Light Induced Enhanced Photocatalytic Degradation of Industrial Effluents (Rhodamine B) Using BiVO ₄ Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 542, 012060	0.4	1
45	A short review on bimetallic Co-based catalysts for carbon dioxide reforming of methane. <i>Materials Today: Proceedings</i> , 2021 , 42, 94-100	1.4	1
44	Simultaneous production of gaseous fuels with degradation of Rhodamine B using a 40kHz double-bath-type sonoreactor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 9292-9302	6.7	1
43	Ethylene glycol dry reforming on Ni/Al ₂ O ₃ catalyst for syngas generation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 446, 012013	0.4	1

42	Enhanced catalytic performance of Ni/SBA-15 towards CO ₂ methanation via P123-assisted method. <i>Materials Today: Proceedings</i> , 2018 , 5, 21620-21628	1.4	1
41	Hydrogen-Rich Syngas Production via Ethanol Dry Reforming over Rare-Earth Metal-Promoted Co-based Catalysts 2018 , 177-204		1
40	Two-dimensional hybrid perovskite solar cells: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	1
39	WS-WC-WO nano-hollow spheres as an efficient and durable catalyst for hydrogen evolution reaction. <i>Nano Convergence</i> , 2021 , 8, 28	9.2	1
38	Agar/maltodextrin/poly(vinyl alcohol) walled montmorillonite composites for removal of methylene blue from aqueous solutions. <i>Surfaces and Interfaces</i> , 2021 , 26, 101410	4.1	1
37	Biohythane as a high potential fuel from anaerobic digestion of organic waste: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111700	16.2	1
36	Biomass-derived carbon-based and silica-based materials for catalytic and adsorptive applications- An update since 2010. <i>Chemosphere</i> , 2022 , 287, 132222	8.4	1
35	Thermochemical conversion of municipal solid waste into energy and hydrogen: a review.. <i>Environmental Chemistry Letters</i> , 2022 , 1-25	13.3	1
34	Empirical approach for configuring high-entropy catalysts in alkaline water electrolysis. <i>International Journal of Energy Research</i> ,	4.5	1
33	Control of the morphologies of molybdenum disulfide for hydrogen evolution reaction. <i>International Journal of Energy Research</i> ,	4.5	1
32	The nitrogen cycle and mitigation strategies for nitrogen loss during organic waste composting: A review.. <i>Chemosphere</i> , 2022 , 134514	8.4	1
31	Electrochemical fabrication of Ni-P-B ternary catalyst for hydrogen production in proton exchange membrane water electrolyzer. <i>International Journal of Energy Research</i> , 2022 , 46, 5988-5996	4.5	1
30	Biopolymer-supported TiO ₂ as a sustainable photocatalyst for wastewater treatment: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	1
29	Synthesis of nano-coral tungsten carbide/carbon fibers as efficient catalysts for hydrogen evolution reaction. <i>International Journal of Energy Research</i> ,	4.5	1
28	A simple synthesis route for preparation and optical properties of PMMA-g-ZnO nanocomposites through surface-initiated radical polymerization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 479, 012108	0.4	0
27	Spatially resolved chemical analysis of photodecomposition and doping effect of fluoropolymer-covered graphene. <i>Applied Physics Letters</i> , 2017 , 111, 121601	3.4	0
26	Modelling of Carbon Dioxide Leakage in Abandon Wells Using Computational Fluid Dynamics. <i>Applied Mechanics and Materials</i> , 2014 , 625, 780-783	0.3	0
25	Effective mitigation of single-component and mixed textile dyes from aqueous media using recyclable graphene-based nanocomposite.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0

24	Microalgae binary culture for higher biomass production, nutrients recycling, and efficient harvesting: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	o
23	Adsorptive removal of some Cl-VOC's as dangerous environmental pollutants using feather-like BAIO derived from aluminium waste with life cycle analysis.. <i>Chemosphere</i> , 2022 , 133795	8.4	o
22	Feedstocks, catalysts, process variables and techniques for biodiesel production by one-pot extraction-transesterification: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	o
21	Data-driven modelling techniques for earth-air heat exchangers to reduce energy consumption in buildings: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	o
20	Ethylene glycol assisted MnCO ₃ electrocatalyst for water oxidation and hydrogen production application. <i>Fuel</i> , 2021 , 302, 121151	7.1	o
19	Nanostructured photocatalysts: Introduction to photocatalytic mechanism and nanomaterials for energy and environmental applications 2021 , 3-33		o
18	Reduced graphene oxide-incorporated calcium phosphate cements with pulsed electromagnetic fields for bone regeneration.. <i>RSC Advances</i> , 2022 , 12, 5557-5570	3.7	o
17	Applications of Non-precious Transition Metal Oxide Nanoparticles in Electrochemistry. <i>Electroanalysis</i> ,	3	o
16	Electrochemical conversion of CO to value-added chemicals over bimetallic Pd-based nanostructures: Recent progress and emerging trends.. <i>Environmental Research</i> , 2022 , 113116	7.9	o
15	Sustainable adsorbents for the removal of pharmaceuticals from wastewater: A review.. <i>Chemosphere</i> , 2022 , 134597	8.4	o
14	Production of hydrogen and value-added carbon materials by catalytic methane decomposition: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	o
13	Protein nanofibrils as versatile and sustainable adsorbents for an effective removal of heavy metals from wastewater: A review.. <i>Chemosphere</i> , 2022 , 301, 134635	8.4	o
12	Pesticide pollutants in the environment - A critical review on remediation techniques, mechanism and toxicological impact.. <i>Chemosphere</i> , 2022 , 134754	8.4	o
11	Characterization and Evaluation of Ca/Al LDHs Adsorbents Synthesized by a One-Step Hydrothermal Method for Congo Red Removal. <i>Materials Science Forum</i> , 2020 , 977, 195-200	0.4	
10	Effects of Graphene Transfer and Thermal Annealing on Anticorrosive Properties of Stainless Steel. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 7835-7842	1.3	
9	Response surface methodology optimization for extraction of natural anthocyanins from Vietnamese <i>Carissa carandas</i> L. fruit. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 544, 012028	0.4	
8	Self-Heated Graphene Microchannels for Low-Power-Consumption Chemosensitive Sensor Array. <i>Proceedings (mdpi)</i> , 2019 , 14, 41	0.3	
7	Modeling the Effect of Temperature-Induced Surface Tension Gradient in Coating Processes. <i>Advanced Materials Research</i> , 2014 , 917, 181-188	0.5	

- 6 P-91: Effect of UV-ozone Treatment as a Function of Time on the Surface Electronic Structure of Indium Tin Oxide. *Digest of Technical Papers SID International Symposium*, **2003**, 34, 567 0.5
- 5 High Catalytic Activity of a Nickel Phosphide Nanocatalyst Supported on Melamine-Doped Activated Carbon for Deoxygenation. *Topics in Catalysis*, **2020**, 11, 1035-1042 2.3
- 4 Recent progress in ethanol steam reforming for hydrogen generation **2020**, 57-80
- 3 Resistive Switching Memory: Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory (Small 41/2020). *Small*, **2020**, 16, 2070228 11
- 2 Preface to the Special Issue on Heterogeneous Photocatalysts: From Fundamentals to Innovative Applications *Topics in Catalysis*, **2020**, 63, 955-955 2.3
- 1 Assessment of plant growth promotion properties and impact of *Microbacterium foliorum* for arsenic removal in *Melastoma malabathricum*. *Bioremediation Journal*, 1-12 2.3