## **Muhammad Tahir**

List of Publications by Year in descending order

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168 papers 12,283 citations

67 h-index 30922 102 g-index

168 all docs

168 docs citations

168 times ranked

8758 citing authors

#	Article	IF	CITATIONS
1	Recent advances in BiOX-based photocatalysts to enhanced efficiency for energy and environment applications. Catalysis Reviews - Science and Engineering, 2024, 66, 119-173.	12.9	27
2	Nipah (Musa Acuminata Balbisiana) banana peel as a lignocellulosic precursor for activated carbon: characterization study after carbonization process with phosphoric acid impregnated activated carbon. Biomass Conversion and Biorefinery, 2023, 13, 11085-11098.	4.6	13
3	Investigating influential effect of methanolâ€phenolâ€steam mixture on hydrogen production through thermodynamic analysis with experimental evaluation. International Journal of Energy Research, 2022, 46, 964-979.	4.5	9
4	Synergistic effect of photo-reduced Ni–Ag loaded g-C3N4 nanosheets for efficient visible Lightâ€Driven photocatalytic hydrogen evolution. Materials Science in Semiconductor Processing, 2022, 137, 106187.	4.0	24
5	Effect of nonmetals (B, O, P, and S) doped with porous g-C3N4 for improved electron transfer towards photocatalytic CO2 reduction with water into CH4. Chemosphere, 2022, 286, 131765.	8.2	74
6	Recent developments in photothermal reactors with understanding on the role of light/heat for CO2 hydrogenation to fuels: A review. Chemical Engineering Journal, 2022, 427, 131617.	12.7	79
7	Recent developments in layered double hydroxide structures with their role in promoting photocatalytic hydrogen production: A comprehensive review. International Journal of Energy Research, 2022, 46, 2093-2140.	4.5	16
8	Bimetallic metal–organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. Coordination Chemistry Reviews, 2022, 451, 214264.	18.8	203
9	Constructing S-scheme 2D/0D g-C3N4/TiO2 NPs/MPs heterojunction with 2D-Ti3AlC2 MAX cocatalyst for photocatalytic CO2 reduction to CO/CH4 in fixed-bed and monolith photoreactors. Journal of Materials Science and Technology, 2022, 106, 195-210.	10.7	82
10	Recent advancements of layered double hydroxide heterojunction composites with engineering approach towards photocatalytic hydrogen production: A review. International Journal of Hydrogen Energy, 2022, 47, 862-901.	7.1	39
11	Constructing S-scheme heterojunction of carbon nitride nanorods (g-CNR) assisted trimetallic CoAlLa LDH nanosheets with electron and holes moderation for boosting photocatalytic CO2 reduction under solar energy. Chemical Engineering Journal, 2022, 433, 133693.	12.7	34
12	Role of surface morphology and terminating groups in titanium carbide MXenes (Ti3C2Tx) cocatalysts with engineering aspects for modulating solar hydrogen production: A critical review. Chemical Engineering Journal, 2022, 433, 134573.	12.7	46
13	Single-step fabrication of highly stable amorphous TiO2 nanotubes arrays (am-TNTA) for stimulating gas-phase photoreduction of CO2 to methane. Chemosphere, 2022, 289, 133170.	8.2	18
14	Recent advances on cobalt metal organic frameworks (MOFs) for photocatalytic CO2 reduction to renewable energy and fuels: A review on current progress and future directions. Energy Conversion and Management, 2022, 253, 115180.	9.2	64
15	Titanium Carbide MXene Nanostructures as Catalysts and Cocatalysts for Photocatalytic Fuel Production: A Review. ACS Applied Nano Materials, 2022, 5, 18-54.	5.0	41
16	Fabricating <scp> V <sub>2</sub> AlC </scp> / <scp> g  <sub>3</sub> N <sub>4</sub> </scp> nanocomposite with <scp>MAX</scp> as electron moderator for promoting photocatalytic <scp> CO <sub>2</sub>  H <sub>4</sub> </scp> refo. International Journal of Energy Research, 2022, 46, 7666-7685.	4.5	5
17	Investigating the product distribution behaviour of CO2 methanation through thermodynamic optimized experimental approach using micro/nano structured titania catalyst. Energy Conversion and Management, 2022, 254, 115240.	9.2	17
18	Highly stable LaCoO3 perovskite supported g-C3N4 nanotextures with proficient charges migration for visible light CO2 photoreduction to CO and CH4. Materials Science in Semiconductor Processing, 2022, 142, 106517.	4.0	21

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19	Effect of Rutile Phase Titanium Oxide Nanofiller on the Dielectric Properties of Polypropylene Nanocomposites., 2022,,.		0
20	Trimetallic metal–organic frameworks and derived materials for environmental remediation and electrochemical energy storage and conversion. Coordination Chemistry Reviews, 2022, 461, 214505.	18.8	95
21	Constructing S-Scheme Heterojunction of CoAlLa-LDH/g-C <sub>3</sub> N <sub>4</sub> through Monolayer Ti <sub>3</sub> C <sub>2</sub> -MXene to Promote Photocatalytic CO <sub>2</sub> Re-forming of Methane to Solar Fuels. ACS Applied Energy Materials, 2022, 5, 784-806.	5.1	38
22	Recent advances in constructing heterojunctions of binary semiconductor photocatalysts for visible light responsive <scp> CO <sub>2</sub> </scp> reduction to energy efficient fuels: A review. International Journal of Energy Research, 2022, 46, 5523-5584.	4.5	32
23	Synergistic effect of cobalt in hierarchical carbon nitride nanorods (HCNNR) with promising charge transfer rate by hole scavenger for stimulating solar H2 production. Journal of Alloys and Compounds, 2022, 916, 165332.	5.5	9
24	Fabricating Ti3C2 MXene cocatalyst supported NiAl-LDH/g-C3N4 ternary nanocomposite for stimulating solar photocatalytic H2 production. Journal of Environmental Chemical Engineering, 2022, 10, 108010.	6.7	17
25	Layered double hydroxide (LDH) nanomaterials with engineering aspects for photocatalytic CO2 conversion to energy efficient fuels: Fundamentals, recent advances, and challenges. Journal of Environmental Chemical Engineering, 2022, 10, 108151.	6.7	20
26	Z-scheme Ag-NPs-embedded LaCoO3 dispersed pCN heterojunction with higher kinetic rate for stimulating photocatalytic solar H2 production. Energy Conversion and Management, 2022, 266, 115787.	9.2	16
27	Metal–organic frameworks and derived materials as photocatalysts for water splitting and carbon dioxide reduction. Coordination Chemistry Reviews, 2022, 469, 214664.	18.8	100
28	Structured clay minerals-based nanomaterials for sustainable photo/thermal carbon dioxide conversion to cleaner fuels: A critical review. Science of the Total Environment, 2022, 845, 157206.	8.0	20
29	A critical review in recent developments of metal-organic-frameworks (MOFs) with band engineering alteration for photocatalytic CO2 reduction to solar fuels. Journal of CO2 Utilization, 2021, 43, 101381.	6.8	135
30	Metal-organic framework-based photocatalysts for carbon dioxide reduction to methanol: A review on progress and application. Journal of CO2 Utilization, 2021, 43, 101374.	6.8	47
31	Well-designed 2D/2D Ti3C2TA/R MXene coupled g-C3N4 heterojunction with in-situ growth of anatase/rutile TiO2 nucleates to boost photocatalytic dry-reforming of methane (DRM) for syngas production under visible light. Applied Catalysis B: Environmental, 2021, 285, 119777.	20.2	132
32	Recent Developments in Natural Gas Flaring Reduction and Reformation to Energy-Efficient Fuels: A Review. Energy & Samp; Fuels, 2021, 35, 3675-3714.	5.1	63
33	Tri-metallic Ni–Co modified reducible TiO2 nanocomposite for boosting H2 production through steam reforming of phenol. International Journal of Hydrogen Energy, 2021, 46, 8932-8949.	7.1	21
34	Fabricating 2D/2D/2D heterojunction of graphene oxide mediated g-C3N4 and ZnV2O6 composite with kinetic modelling for photocatalytic CO2 reduction to fuels under UV and visible light. Journal of Materials Science, 2021, 56, 9985-10007.	3.7	18
35	A review on current trends in potential use of metal-organic framework for hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 11782-11803.	7.1	200
36	Investigating the Influential Effect of Etchant Time in Constructing 2 <i>D</i> /li>/2D HCN/MXene Heterojunction with Controlled Growth of TiO <sub>2</sub> NPs for Stimulating Photocatalytic H <sub>2</sub> Production. Energy & Samp; Fuels, 2021, 35, 6807-6822.	5.1	31

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37	Current trends in structural development and modification strategies for metal-organic frameworks (MOFs) towards photocatalytic H2 production: A review. International Journal of Hydrogen Energy, 2021, 46, 14148-14189.	7.1	85
38	Synergistic Effect of Co/La in Oxygen Vacancy Rich Ternary CoAlLa Layered Double Hydroxide with Enhanced Reductive Sites for Selective Photoreduction of CO <sub>2</sub> to CH <sub>4</sub> . Energy & Double Hydroxide with	5.1	30
39	Constructing La <sub><i>x</i></sub> Co <sub><i>y</i></sub> O <sub>3</sub> Perovskite Anchored 3D g-C <sub>3</sub> N <sub>4</sub> Hollow Tube Heterojunction with Proficient Interface Charge Separation for Stimulating Photocatalytic H <sub>2</sub> Production. Energy & Separation For Stimulating Photocatalytic H <sub>2</sub> Production. Energy & Separation For Stimulating Photocatalytic H <sub>2</sub> Production. Energy & Separation For Stimulating Photocatalytic H <sub>2</sub> Production. Energy & Separation For Stimulating Photocatalytic H <sub>2</sub>	5.1	40
40	An insight review of lignocellulosic materials as activated carbon precursor for textile wastewater treatment. Environmental Technology and Innovation, 2021, 22, 101445.	6.1	39
41	A review on recent developments in solar photoreactors for carbon dioxide conversion to fuels. Journal of CO2 Utilization, 2021, 47, 101515.	6.8	42
42	Advanced Nanoscale Surface Characterization of CuO Nanoflowers for Significant Enhancement of Catalytic Properties. Molecules, 2021, 26, 2700.	3.8	6
43	In-situ growth of TiO2 imbedded Ti3C2TA nanosheets to construct PCN/Ti3C2TA MXenes 2D/3D heterojunction for efficient solar driven photocatalytic CO2 reduction towards CO and CH4 production. Journal of Colloid and Interface Science, 2021, 591, 20-37.	9.4	71
44	Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> ) MXene as a Promising Co-catalyst for Photocatalytic CO <sub>2</sub> Conversion to Energy-Efficient Fuels: A Review. Energy & Ene	5.1	80
45	Synergistic effect of anatase/rutile TiO2 with exfoliated Ti3C2TR MXene multilayers composite for enhanced CO2 photoreduction via dry and bi-reforming of methane under UV–visible light. Journal of Environmental Chemical Engineering, 2021, 9, 105244.	6.7	29
46	Synergistically improved charge separation in bimetallic Co–La modified 3D g-C3N4 for enhanced photocatalytic H2 production under UV–visible light. International Journal of Hydrogen Energy, 2021, 46, 20995-21012.	7.1	42
47	Enhancing the photodegradation of phenol using Fe3O4/SiO2 binary nanocomposite mediated by silane agent. Journal of Physics and Chemistry of Solids, 2021, 153, 110022.	4.0	15
48	Interface study of hybrid CuO nanoparticles embedded ZnO nanowires heterojunction synthesized by controlled vapor deposition approach for optoelectronic devices. Optical Materials, 2021, 117, 111132.	3.6	14
49	Influence of various operational parameters in enhancing photocatalytic reduction efficiency of carbon dioxide in a photoreactor: A review. Journal of Industrial and Engineering Chemistry, 2021, 99, 19-47.	5.8	31
50	Current Trends and Approaches to Boost the Performance of Metal Organic Frameworks for Carbon Dioxide Methanation through Photo/Thermal Hydrogenation: A Review. Industrial & Engineering Chemistry Research, 2021, 60, 13149-13179.	3.7	34
51	Steam reforming of phenol toward cleaner hydrogen production over bimetallic Ni/Ti modified zinc titanate perovskite in tandem with a kinetic model development. Journal of Cleaner Production, 2021, 311, 127519.	9.3	22
52	Binary Ni <sub>2</sub> P/Ti <sub>3</sub> C <sub>2</sub> Multilayer Cocatalyst Anchored TiO <sub>2</sub> Nanocomposite with Etchant/Oxidation Grown TiO <sub>2</sub> NPs for Enhancing Photocatalytic H <sub>2</sub> Production. Energy & Damp; Fuels, 2021, 35, 14197-14211.	5.1	39
53	Recent trends in developments of active metals and heterogenous materials for catalytic CO2 hydrogenation to renewable methane: A review. Journal of Environmental Chemical Engineering, 2021, 9, 105460.	6.7	102
54	Ru-embedded 3D g-C3N4 hollow nanosheets (3D CNHNS) with proficient charge transfer for stimulating photocatalytic H2 production. International Journal of Hydrogen Energy, 2021, 46, 27997-28010.	7.1	28

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55	Indirect Z-scheme heterojunction of NH2-MIL-125(Ti) MOF/g-C3N4 nanocomposite with RGO solid electron mediator for efficient photocatalytic CO2 reduction to CO and CH4. Journal of Environmental Chemical Engineering, 2021, 9, 105600.	6.7	82
56	Investigating the performance of liquid and gas phase photoreactors for dynamic H2 production over bimetallic TiO2 and Ni2P dispersed MAX Ti3AlC2 monolithic nanocomposite under UV and visible light. Journal of Environmental Chemical Engineering, 2021, 9, 105351.	6.7	18
57	Recent advancements in strategies to improve performance of tungsten-based semiconductors for photocatalytic hydrogen production: a review. Journal Physics D: Applied Physics, 2021, 54, 503001.	2.8	15
58	Photocatalytic CO2 reduction to CO and CH4 using g-C3N4/RGO on titania nanotube arrays (TNTAs). Journal of Materials Science, 2021, 56, 18989-19014.	3.7	14
59	Advances in structural modification of perovskite semiconductors for visible light assisted photocatalytic CO2 reduction to renewable solar fuels: A review. Journal of Environmental Chemical Engineering, 2021, 9, 106264.	6.7	56
60	Methane decomposition for hydrogen production over biomass fly ash-based CeO2 nanowires promoted cobalt catalyst. Journal of Environmental Chemical Engineering, 2021, 9, 105816.	6.7	24
61	Synergistic effect of Ru embedded 2D Ti3AlC2 binary cocatalyst with porous g-C3N4 to construct 2D/2D Ru-MAX/PCN heterojunction for enhanced photocatalytic H2 production. Materials Research Bulletin, 2021, 144, 111493.	5.2	8
62	Facile fabrication of well-designed 2D/2D porous g-C3N4–GO nanocomposite for photocatalytic methane reforming (DRM) with CO2 towards enhanced syngas production under visible light. Fuel, 2021, 305, 121558.	6.4	44
63	Microalgae biomass conversion into biofuel using modified HZSM-5 zeolite catalyst: A review. Materials Today: Proceedings, 2021, 42, 2308-2313.	1.8	15
64	CO2 to green fuel: Photocatalytic process optimization study. Sustainable Chemistry and Pharmacy, 2021, 24, 100533.	3.3	3
65	Construction of an S-Scheme Heterojunction with Oxygen-Vacancy-Rich Trimetallic CoAlLa-LDH Anchored on Titania-Sandwiched Ti <sub>3</sub> C <sub>2</sub> Multilayers for Boosting Photocatalytic CO <sub>2</sub> Reduction under Visible Light. Industrial & Direction Chemistry Research, 2021, 60, 16201-16223.	3.7	33
66	Role of Ti <sub>3</sub> C <sub>2</sub> MXene as Prominent Schottky Barriers in Driving Hydrogen Production through Photoinduced Water Splitting: A Comprehensive Review. ACS Applied Energy Materials, 2021, 4, 11982-12006.	5.1	57
67	Template free synthesis of graphitic carbon nitride nanotubes mediated by lanthanum (La/g-CNT) for selective photocatalytic CO2 reduction via dry reforming of methane (DRM) to fuels. Applied Surface Science, 2020, 504, 144177.	6.1	83
68	Au-NPs embedded Z–scheme WO3/TiO2 nanocomposite for plasmon-assisted photocatalytic glycerol-water reforming towards enhanced H2 evolution. Applied Surface Science, 2020, 503, 144344.	6.1	81
69	Monolithic Ag-Mt dispersed Z-scheme pCN-TiO2 heterojunction for dynamic photocatalytic H2 evolution using liquid and gas phase photoreactors. International Journal of Hydrogen Energy, 2020, 45, 4355-4375.	7.1	52
70	Well-designed ZnFe2O4/Ag/TiO2 nanorods heterojunction with Ag as electron mediator for photocatalytic CO2 reduction to fuels under UV/visible light. Journal of CO2 Utilization, 2020, 37, 134-146.	6.8	97
71	Effect of support size for stimulating hydrogen production in phenol steam reforming using Ni-embedded TiO2 nanocatalyst. Journal of Environmental Chemical Engineering, 2020, 8, 103604.	6.7	34
72	Morphological effect of 1D/1D In2O3/TiO2 NRs/NWs heterojunction photo-embedded with Cu-NPs for enhanced photocatalytic H2 evolution under visible light. Applied Surface Science, 2020, 506, 145034.	6.1	59

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73	Highly stable 3D/2D WO3/g-C3N4 Z-scheme heterojunction for stimulating photocatalytic CO2 reduction by H2O/H2 to CO and CH4 under visible light. Journal of CO2 Utilization, 2020, 41, 101270.	6.8	56
74	ZnO nanowires based schottky contacts of Rh/ZnO interfaces for the enhanced performance of electronic devices. Surfaces and Interfaces, 2020, 21, 100649.	3.0	10
75	Tailoring metal/support interaction in OD TiO2 NPs/MPs embedded 2D MAX composite with boosted interfacial charge carrier separation for stimulating photocatalytic H2 production. Journal of Environmental Chemical Engineering, 2020, 8, 104529.	6.7	10
76	Constructing a Stable 2D Layered Ti <sub>3</sub> C <sub>2</sub> MXene Cocatalyst-Assisted TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> Heterojunction for Tailoring Photocatalytic Bireforming of Methane under Visible Light. Energy & Samp; Fuels, 2020, 34, 9810-9828.	5.1	84
77	Well-Designed 3D/2D/2D WO <sub>3</sub> /Bt/g-C <sub>3</sub> N <sub>4</sub> Z-Scheme Heterojunction for Tailoring Photocatalytic CO <sub>2</sub> Methanation with 2D-Layered Bentonite-Clay as the Electron Moderator under Visible Light. Energy & Electron Moderator under Visible Light. Energy & Electron Moderator under Visible Light.	5.1	40
78	Current trends in strategies to improve photocatalytic performance of perovskites materials for solar to hydrogen production. Renewable and Sustainable Energy Reviews, 2020, 132, 110073.	16.4	69
79	Photoinduced Dry and Bireforming of Methane to Fuels over Laâ€Modified TiO <sub>2</sub> in Fixedâ€Bed and Monolith Reactors. Energy Technology, 2020, 8, 2000106.	3.8	11
80	Recent development in band engineering of binary semiconductor materials for solar driven photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 15985-16038.	7.1	187
81	Fabricating structured 2D Ti3AlC2 MAX dispersed TiO2 heterostructure with Ni2P as a cocatalyst for efficient photocatalytic H2 production. Journal of Alloys and Compounds, 2020, 842, 155752.	5.5	82
82	2D/2D/2D O-C3N4/Bt/Ti3C2Tx heterojunction with novel MXene/clay multi-electron mediator for stimulating photo-induced CO2 reforming to CO and CH4. Chemical Engineering Journal, 2020, 400, 125868.	12.7	131
83	Recent progress in structural development and band engineering of perovskites materials for photocatalytic solar hydrogen production: A review. International Journal of Hydrogen Energy, 2020, 45, 19078-19111.	7.1	76
84	Construction of a Stable Two-Dimensional MAX Supported Protonated Graphitic Carbon Nitride (pg-C <sub>3</sub> N <sub>4</sub> )/Ti <sub>3</sub> AlC <sub>2</sub> /TiO <sub>2</sub> Z-Scheme Multiheterojunction System for Efficient Photocatalytic CO <sub>2</sub> Reduction through Dry Reforming of Methanol. Energy & Dry Subs 2020, 34, 3540-3556.	5.1	77
85	Enhanced photocatalytic CO2 reduction to fuels through bireforming of methane over structured 3D MAX Ti3AlC2/TiO2 heterojunction in a monolith photoreactor. Journal of CO2 Utilization, 2020, 38, 99-112.	6.8	47
86	Constructing a Stable 2D/2D Heterojunction of Oxygen-Cluster-Modified Ti <sub>3</sub> AlC <sub>2</sub> MAX Cocatalyst with Proton-Rich C <sub>3</sub> N <sub>4</sub> for Highly Efficient Photocatalytic CO <sub>2</sub> Methanation. Industrial & mp; Engineering Chemistry Research, 2020, 59, 9841-9857.	3.7	49
87	Kinetic study of dry reforming of methane using hybrid DBD plasma reactor over La2O3 co-supported Ni/MgAl2O4 catalyst. International Journal of Hydrogen Energy, 2020, 45, 12256-12271.	7.1	42
88	2D/2D Mt/m-CN composite with enriched interface charge transfer for boosting photocatalytic CO2 hydrogenation by H2 to CH4 under visible light. Applied Surface Science, 2020, 520, 146296.	6.1	31
89	Exploration of reaction mechanisms on the plastic waste polyethylene terephthalate (PET) dissolved in phenol steam reforming reaction to produce hydrogen and valuable liquid fuels. Journal of Analytical and Applied Pyrolysis, 2020, 150, 104860.	5.5	12
90	Synergistic effects of single/multi-walls carbon nanotubes in TiO2 and process optimization using response surface methodology for photo-catalytic H2 evolution. Journal of Environmental Chemical Engineering, 2019, 7, 103361.	6.7	32

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91	In-situ synthesis of TiO2/La2O2CO3/rGO composite under acidic/basic treatment with La3+/Ti3+ as mediators for boosting photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2019, 44, 23669-23688.	7.1	20
92	Facile synthesis of GO and g-C3N4 nanosheets encapsulated magnetite ternary nanocomposite for superior photocatalytic degradation of phenol. Environmental Pollution, 2019, 253, 1066-1078.	7.5	50
93	Silver loaded protonated graphitic carbon nitride (Ag/pg-C3N4) nanosheets for stimulating CO2 reduction to fuels via photocatalytic bi-reforming of methane. Applied Surface Science, 2019, 493, 18-31.	6.1	70
94	The effect of crystal facets and induced porosity on the performance of monoclinic BiVO4 for the enhanced visible-light driven photocatalytic abatement of methylene blue. Journal of Environmental Chemical Engineering, 2019, 7, 103265.	6.7	49
95	Evaluating the Performance of a Ni Catalyst Supported on La <sub>2</sub> O <sub>3</sub> -MgAl <sub>2</sub> O <sub>4</sub> for Dry Reforming of Methane in a Packed Bed Dielectric Barrier Discharge Plasma Reactor. Energy & Dielectric Barrier Discharge Plasma Reactor. Energy & Dielectric Barrier Discharge Plasma Reactor. Energy & Dielectric Barrier Discharge Plasma Reactor.	5.1	75
96	Narrowing the Band Gap of BiOCl for the Hydroxyl Radical Generation of Photocatalysis under Visible Light. ACS Sustainable Chemistry and Engineering, 2019, 7, 16569-16576.	6.7	81
97	Controlled synthesis of reduced graphene oxide supported magnetically separable Fe3O4@rGO@Agl ternary nanocomposite for enhanced photocatalytic degradation of phenol. Powder Technology, 2019, 356, 547-558.	4.2	47
98	Recent trends in photocatalytic materials for reduction of carbon dioxide to methanol. Renewable and Sustainable Energy Reviews, 2019, 116, 109389.	16.4	76
99	Ni-embedded TiO2-ZnTiO3 reducible perovskite composite with synergistic effect of metal/support towards enhanced H2 production via phenol steam reforming. Energy Conversion and Management, 2019, 200, 112064.	9.2	39
100	Ag-La loaded protonated carbon nitrides nanotubes (pCNNT) with improved charge separation in a monolithic honeycomb photoreactor for enhanced bireforming of methane (BRM) to fuels. Applied Catalysis B: Environmental, 2019, 248, 167-183.	20.2	79
101	Recent developments in non-thermal catalytic DBD plasma reactor for dry reforming of methane. Energy Conversion and Management, 2019, 183, 529-560.	9.2	147
102	The chemical precipitation synthesis of nanorose-shaped Bi4O5I2 with highly visible light photocatalytic performance. Materials Letters, 2019, 252, 106-109.	2.6	13
103	Engineering approach in stimulating photocatalytic H2 production in a slurry and monolithic photoreactor systems using Ag-bridged Z-scheme pCN/TiO2 nanocomposite. Chemical Engineering Journal, 2019, 374, 1076-1095.	12.7	69
104	Engineering approach to enhance photocatalytic water splitting for dynamic H2 production using La2O3/TiO2 nanocatalyst in a monolith photoreactor. Applied Surface Science, 2019, 484, 1089-1101.	6.1	56
105	Cu-NPs embedded 1D/2D CNTs/pCN heterojunction composite towards enhanced and continuous photocatalytic CO2 reduction to fuels. Applied Surface Science, 2019, 485, 450-461.	6.1	77
106	Self-doped Ti3+ mediated TiO2/In2O3/SWCNTs heterojunction composite under acidic/basic heat medium for boosting visible light induced H2 evolution. International Journal of Hydrogen Energy, 2019, 44, 13466-13479.	7.1	18
107	Montmorillonite dispersed single wall carbon nanotubes (SWCNTs)/TiO2 heterojunction composite for enhanced dynamic photocatalytic H2 production under visible light. Applied Clay Science, 2019, 174, 110-119.	5.2	40
108	Indirect Z-Scheme Assembly of 2D ZnV <sub>2&lt; sub&gt;0<sub>6&lt; sub&gt; RGO g-C<sub>3&lt; sub&gt;N<sub>4&lt; sub&gt; Nanosheets with RGO pCN as Solid-State Electron Mediators toward Visible-Light-Enhanced CO<sub>2&lt; sub&gt; Reduction. Industrial &amp; Samp; Engineering Chemistry Research, 2019, 58, 8612-8624.</sub></sub></sub></sub></sub>	3.7	84

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109	Process optimization of DBD plasma dry reforming of methane over Ni/La2O3MgAl2O4 using multiple response surface methodology. International Journal of Hydrogen Energy, 2019, 44, 11774-11787.	7.1	47
110	Carbon Nanotubes Incorporated Z-Scheme Assembly of AgBr/TiO2 for Photocatalytic Hydrogen Production under Visible Light Irradiations. Nanomaterials, 2019, 9, 1767.	4.1	14
111	Fabrication of highly efficient and stable indirect Z-scheme assembly of AgBr/TiO2 via graphene as a solid-state electron mediator for visible light induced enhanced photocatalytic H2 production. Applied Surface Science, 2019, 463, 445-455.	6.1	80
112	Metals free MWCNTs@TiO2@MMT heterojunction composite with MMT as a mediator for fast charges separation towards visible light driven photocatalytic hydrogen evolution. Applied Surface Science, 2019, 463, 747-757.	6.1	75
113	Recent advancements in engineering approach towards design of photo-reactors for selective photocatalytic CO2 reduction to renewable fuels. Journal of CO2 Utilization, 2019, 29, 205-239.	6.8	189
114	2D-montmorillonite-dispersed g-C3N4/TiO2 2D/ODnanocomposite for enhanced photo-induced H2 evolution from glycerol-water mixture. Applied Surface Science, 2019, 471, 1053-1064.	6.1	72
115	Enhanced photocatalytic carbon dioxide reforming of methane to fuels over nickel and montmorillonite supported TiO2 nanocomposite under UV-light using monolith photoreactor. Journal of Cleaner Production, 2019, 213, 451-461.	9.3	93
116	Hierarchical 3D VO2/ZnV2O4 microspheres as an excellent visible light photocatalyst for CO2 reduction to solar fuels. Applied Surface Science, 2019, 467-468, 1170-1180.	6.1	69
117	Thermodynamic investigation and experimental analysis on phenol steam reforming towards enhanced H2 production over structured Ni/ZnTiO3 nanocatalyst. Energy Conversion and Management, 2019, 180, 796-810.	9.2	51
118	A critical review in strategies to improve photocatalytic water splitting towards hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 540-577.	7.1	573
119	La-modified TiO2/carbon nanotubes assembly nanocomposite for efficient photocatalytic hydrogen evolution from glycerol-water mixture. International Journal of Hydrogen Energy, 2019, 44, 3711-3725.	7.1	76
120	Enhanced Metal–Support Interaction in Ni/Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> Nanorods toward Stable and Dynamic Hydrogen Production from Phenol Steam Reforming. Industrial & Engineering Chemistry Research, 2019, 58, 517-530.	3.7	45
121	Well-designed ZnV2O6/g-C3N4 2D/2D nanosheets heterojunction with faster charges separation via pCN as mediator towards enhanced photocatalytic reduction of CO2 to fuels. Applied Catalysis B: Environmental, 2019, 242, 312-326.	20.2	162
122	Tailoring performance of La-modified TiO 2 nanocatalyst for continuous photocatalytic CO 2 reforming of CH 4 to fuels in the presence of H 2 O. Energy Conversion and Management, 2018, 159, 284-298.	9.2	90
123	Lantern-like bismuth oxyiodide embedded typha-based carbon <i>via in situ</i> self-template and ion exchange–recrystallization for high-performance photocatalysis. Dalton Transactions, 2018, 47, 6692-6701.	3.3	40
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125	Synthesis of hierarchical ZnV2O6 nanosheets with enhanced activity and stability for visible light driven CO2 reduction to solar fuels. Applied Surface Science, 2018, 435, 953-962.	6.1	51
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