

Misook Kang

List of Publications by Year in descending order

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321
papers

9,057
citations

53939

47
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90395

73
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all docs

324
docs citations

324
times ranked

11096
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term catalytic durability in Z-scheme CdS@ 1T-WS2 heterojunction materials. Journal of Industrial and Engineering Chemistry, 2022, 105, 337-351.	2.9	6
2	Synergistic effects of Tin sulfide Nitrogen-doped titania Nanobelt-Modified graphitic carbon nitride nanosheets with outstanding photocatalytic activity. Journal of Colloid and Interface Science, 2022, 606, 1767-1778.	5.0	8
3	Switching of a type I to an all-solid-state Z-scheme heterojunction by an electron mediator rGO bridge: 18.4% solar-to-hydrogen efficiency in n-ZnS/rGO/p-Bi2S3 ternary catalyst. Chemical Engineering Journal, 2022, 430, 133104.	6.6	22
4	Hierarchical V2O5/ZnV2O6 nanosheets photocatalyst for CO2 reduction to solar fuels. Chemical Engineering Journal, 2022, 430, 132863.	6.6	9
5	Repercussion of growth morphology on sodium and potassium tantalates for hydrogen production. Solid State Communications, 2022, 342, 114622.	0.9	0
6	CuS/Ag2O nanoparticles on ultrathin g-C3N4 nanosheets to achieve high performance solar hydrogen evolution. Journal of Colloid and Interface Science, 2022, 615, 740-751.	5.0	17
7	Surface modification of TiO2 nanorods with Mg doping for efficient photoelectrodes in dye sensitized solar cells. Applied Surface Science, 2022, 585, 152719.	3.1	10
8	Fabrication of solar-driven hierarchical ZnIn2S4/rGO/SnS2 heterojunction photocatalyst for hydrogen generation and environmental pollutant elimination. Separation and Purification Technology, 2022, 293, 121119.	3.9	16
9	Bismuth quantum dots anchored one-dimensional CdS as plasmonic photocatalyst for pharmaceutical tetracycline hydrochloride pollutant degradation. Chemosphere, 2022, 300, 134570.	4.2	32
10	Flexible structural transformation and high oxygen-transfer capacity of mixed inverse spinel magnesium manganese oxides during methane chemical looping combustion. Fuel Processing Technology, 2022, 232, 107262.	3.7	4
11	Synergistic sorption performance of karaya gum crosslink poly(acrylamide-co-acrylonitrile) @ metal nanoparticle for organic pollutants. International Journal of Biological Macromolecules, 2022, 210, 300-314.	3.6	63
12	Synergistic Ru-Ni-Cu interface for stable hydrogen evolution on 1% Ru-Ni@Cu alloy grown directly on carbon paper electrode. Journal of Alloys and Compounds, 2022, 913, 165315.	2.8	6
13	Effective oxygen reduction reaction and suppression of CO poisoning on Pt3Ni1/N-rGO electrocatalyst. Applied Surface Science, 2022, 600, 154048.	3.1	9
14	Sustainable and stable hydrogen production over petal-shaped CdS/FeS2 S-scheme heterojunction by photocatalytic water splitting. International Journal of Hydrogen Energy, 2022, 47, 27911-27929.	3.8	12
15	Visible light-induced stable HER performance using duality of ultrafine Pt NPs in a Z-scheme p-n junction Fe2O3@Pt@FeS catalyst. Applied Surface Science, 2021, 541, 148347.	3.1	13
16	Plasmonic quaternary heteronanostructures (HNSs) for improved solar light utilization, spatial charge separation, and stability in photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2021, 582, 720-731.	5.0	12
17	Recent Advances in Nanotechnology-Based Diagnosis and Treatments of Human Osteosarcoma. Biosensors, 2021, 11, 55.	2.3	64
18	Multi-Functionalized Nanomaterials and Nanoparticles for Diagnosis and Treatment of Retinoblastoma. Biosensors, 2021, 11, 97.	2.3	49

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19	A Hyaluronic Acid Functionalized Self-Nano-Emulsifying Drug Delivery System (SNEDDS) for Enhancement in Ciprofloxacin Targeted Delivery against Intracellular Infection. <i>Nanomaterials</i> , 2021, 11, 1086.	1.9	44
20	Achieving a long-term stability by self-redox property between Fe and Mn ions in the iron-manganese spinel structured electrode in oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 546, 149124.	3.1	28
21	Electrochemical behavior of the flower shaped CoMn ₂ O ₄ spinel structure assembled for effective HER from water splitting. <i>Electrochimica Acta</i> , 2021, 379, 138168.	2.6	26
22	CO ₂ hydrogenation activity of Ni-Mg-Al ₂ O ₃ catalysts: Reaction behavior on NiAl ₂ O ₄ and MgAl ₂ O ₄ . <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1188-1196.	1.2	6
23	Form-stabled phase change material loaded with Ag NPs onto encapsulated n-tetracosane@SiO ₂ , and thermal energy storage behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 267-279.	2.9	13
24	Redox additive based rGO-Dy ₂ WO ₆ -ZnO nanocomposite for enhanced electrochemical supercapacitor applications. <i>Synthetic Metals</i> , 2021, 276, 116753.	2.1	17
25	A novel green-mediated approach of 3-D hierarchical-like ZnO@Ag, ZnO@Au and ZnO@Ag@Au NCs prepared via <i>Opuntia ficus indica</i> fruits extract for enhancement of biological activities. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	11
26	Design for a longer photoinduced charge separation and improved visible-light-driven H ₂ generation through structure reversal and oxygen vacancies via Ni substitution into ZnFe ₂ O ₄ spinel. <i>Ceramics International</i> , 2021, 47, 20317-20334.	2.3	7
27	Highly efficient hydrogen evolution reaction performance and long-term stability of spherical Ni _{100-x} Fe _x alloy grown directly on a carbon paper electrode. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159265.	2.8	13
28	Improved charge carrier separation of Schottky junction containing a bimetallic Cu-Pd alloy and N-Bi ₂ WO ₆ square-shaped discs for photocatalytic H ₂ performance. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 276-289.	5.0	12
29	Construction of visible-light driven Bi ₂ MoO ₆ -rGO-TiO ₂ photocatalyst for effective ofloxacin degradation. <i>Environmental Research</i> , 2021, 199, 111261.	3.7	34
30	Fabrication of oxygen vacancy rich ultrafine ceria nanocubes decorated one dimensional CdS heteronanostructures for efficient visible light driven hydrogen evolution reaction. <i>Applied Surface Science</i> , 2021, 556, 149731.	3.1	35
31	Effective visible light-driven ternary composite of ZnO nanorod decorated Bi ₂ MoO ₆ in rGO for reduction of hexavalent chromium. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105467.	3.3	12
32	Controllable oxygen doping and sulfur vacancies in one dimensional CdS nanorods for boosted hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159797.	2.8	31
33	Implication of biofilms in the sustainability of acid mine drainage and metal dispersion near coal tailings. <i>Science of the Total Environment</i> , 2021, 788, 147851.	3.9	30
34	S-scheme assisted Cu ₂ O/ZnO flower-shaped heterojunction catalyst for breakthrough hydrogen evolution by water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 38319-38335.	3.8	24
35	Single layered hollow NiO@NiS catalyst with large specific surface area and highly efficient visible-light-driven carbon dioxide conversion. <i>Chemosphere</i> , 2021, 280, 130759.	4.2	10
36	CoS@TiO ₂ S-scheme heterojunction photocatalyst for hydrogen production from photoinduced water splitting. <i>Journal of Cleaner Production</i> , 2021, 319, 128819.	4.6	52

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37	Perlite impregnated with HPA/ γ -Fe ₂ O ₃ : Magnetically separable catalyst for the synthesis of 3,3,6,6-tetramethyl-9-substituted-3,4,6,7-tetrahydro-2H-xanthene-1,8-(5H,9H)-diones. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 157, 110192.	1.9	2
38	Surface engineering of CdS with ternary Bi/Bi ₂ MoO ₆ -MoS ₂ heterojunctions for enhanced photoexcited charge separation in solar-driven hydrogen evolution reaction. <i>Applied Surface Science</i> , 2021, 565, 150601.	3.1	40
39	Facile synthesis of sphere-like structured ZnIn ₂ S ₄ -rGO-CuInS ₂ ternary heterojunction catalyst for efficient visible-active photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 669-679.	5.0	55
40	Effective alkaline water electrolysis on n-MnO ₂ -nsNi(OH) ₂ composite electrode via lattice oxygen participant adsorbate evolving mechanism. <i>Applied Surface Science</i> , 2021, 567, 150281.	3.1	4
41	Ag ₃ PO ₄ -Bi ₂ WO ₆ -TiO ₂ as a high performance electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 566, 150681.	3.1	15
42	Octahedron-shaped SnFe ₂ O ₄ for boosting photocatalytic degradation and CO ₂ reduction. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161737.	2.8	11
43	Effective charge separation in rGO/NiWO ₄ @Au photocatalyst for efficient CO ₂ reduction under visible light. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 427-439.	2.9	17
44	Rice husk-derived carbon-silica supported Ni catalysts for selective hydrogenation of biomass-derived furfural and levulinic acid. <i>Fuel</i> , 2020, 261, 116339.	3.4	44
45	Z-scheme SnFe ₂ O ₄ -graphitic carbon nitride: Reusable, magnetic catalysts for enhanced photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2020, 383, 123172.	6.6	66
46	Synthesis and characterization of ZnTiO ₃ and Ag doped ZnTiO ₃ perovskite nanoparticles and their enhanced photocatalytic and antibacterial activity. <i>Journal of Solid State Chemistry</i> , 2020, 281, 121019.	1.4	51
47	Preparation of highly crystalline quaternary heterostructure catalyst for hydrogen evolution under solar light: Improved photoexcited charge separation. <i>Materials Research Bulletin</i> , 2020, 122, 110695.	2.7	9
48	Fast and highly efficient catalytic degradation of dyes using γ -carrageenan stabilized silver nanoparticles nanocatalyst. <i>Carbohydrate Polymers</i> , 2020, 230, 115597.	5.1	204
49	Fast and highly efficient removal of dye from aqueous solution using natural locust bean gum based hydrogels as adsorbent. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 60-75.	3.6	185
50	Efficient hydrogen production by low-temperature steam reforming of propane using catalysts with very small amounts of Pt loaded on NiMn ₂ O ₄ particles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20904-20921.	3.8	16
51	Effective charge separation through the sulfur vacancy interfacial in n-CdO/p-CdS bulk heterojunction particle and its solar-induced hydrogen production. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 91, 149-166.	2.9	25
52	Hydrothermal synthesis of pure PbTiO ₃ and silver doped PbTiO ₃ perovskite nanoparticles for enhanced photocatalytic activity. <i>Materials Letters</i> , 2020, 279, 128507.	1.3	20
53	Enhanced Electrochemical Properties and OER Performances by Cu Substitution in NiCo ₂ O ₄ Spinel Structure. <i>Nanomaterials</i> , 2020, 10, 1727.	1.9	37
54	Platform- and label-free detection of lead ions in environmental and laboratory samples using G-quadruplex probes by circular dichroism spectroscopy. <i>Scientific Reports</i> , 2020, 10, 20461.	1.6	6

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55	Plasmon-Induced Hot Electron Amplification and Effective Charge Separation by Au Nanoparticles Sandwiched between Copper Titanium Phosphate Nanosheets and Improved Carbon Dioxide Conversion to Methane. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18646-18660.	3.2	9
56	Synthesis of Ag and N doped potassium tantalate perovskite nanocubes for enhanced photocatalytic hydrogen evolution. <i>Materials Letters</i> , 2020, 275, 128166.	1.3	10
57	Integration of perovskite type Bi ₂ MoO ₆ nanosheets onto one dimensional CdS: a type-II heterostructured photocatalytic system for efficient charge separation in the hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2818-2832.	3.0	40
58	Sequestration of methylene blue dye using sodium alginate poly(acrylic acid)@ZnO hydrogel nanocomposite: Kinetic, Isotherm, and Thermodynamic Investigations. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 60-73.	3.6	102
59	Photocatalytic Hydrogen Evolution. <i>Catalysts</i> , 2020, 10, 492.	1.6	5
60	Effective thermocatalytic carbon dioxide methanation on Ca-inserted NiTiO ₃ perovskite. <i>Fuel</i> , 2020, 271, 117624.	3.4	39
61	Electrical behavior and enhanced photocatalytic activity of (Ag, Ni) co-doped ZnO nanoparticles synthesized from co-precipitation technique. <i>Water Science and Technology</i> , 2020, 81, 1296-1307.	1.2	10
62	Eco Friendly Approach for Synthesis, Characterization and Biological Activities of Milk Protein Stabilized Silver Nanoparticles. <i>Polymers</i> , 2020, 12, 1418.	2.0	42
63	Self-assembled electron-rich interface in defected ZnO:rGO-Cu:Cu ₂ O, and effective visible light-induced carbon dioxide photoreduction. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118648.	10.8	23
64	Nb ₂ O ₅ @SnS ₂ @CdS heteronanostructures as efficient visible-light-harvesting materials for production of H ₂ under solar light irradiation. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155399.	2.8	16
65	Controlled Growth and Bandstructure Properties of One Dimensional Cadmium Sulfide Nanorods for Visible Photocatalytic Hydrogen Evolution Reaction. <i>Nanomaterials</i> , 2020, 10, 619.	1.9	16
66	Improvement of Oxygen Mobility with the Formation of Defects in the Crystal Structure of Red Mud as an Oxygen Carrier for Chemical Looping Combustion. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7075-7080.	0.9	5
67	Hydrogen production on Pd _{0.01} Zn _{0.29} Mg _{0.7} Al ₂ O ₄ spinel catalyst by low temperature ethanol steam reforming reaction. <i>Journal of the Energy Institute</i> , 2019, 92, 1064-1076.	2.7	7
68	Fabrication of Ag based ternary nanocomposite system for visible-light photocatalytic hydrogen evolution reaction. <i>Applied Surface Science</i> , 2019, 494, 886-894.	3.1	20
69	Reliable carbon dioxide photoreduction by a rational electron transfer cycle formed on a nanorod-shaped CdS/Fe ₂ O ₃ heterojunction catalyst. <i>Applied Surface Science</i> , 2019, 495, 143567.	3.1	25
70	Hydrogen Production Improvement on Water Decomposition Through Internal Interfacial Charge Transfer in M ₃ (PO ₄) ₂ -M ₂ P ₂ O ₇ Mixed-Phase Catalyst (M = Co, Ni, and Cu). <i>Catalysts</i> , 2019, 9, 602.	1.6	8
71	Carbothermal process-derived porous N-doped carbon for flexible energy storage: Influence of carbon surface area and conductivity. <i>Chemical Engineering Journal</i> , 2019, 378, 122158.	6.6	19
72	Electrochemical Synergies of Heterostructured Fe ₂ O ₃ -MnO Catalyst for Oxygen Evolution Reaction in Alkaline Water Splitting. <i>Nanomaterials</i> , 2019, 9, 1486.	1.9	42

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73	Enhancement of Hydrogen Productions by Accelerating Electron-Transfers of Sulfur Defects in the CuS@CuGaS ₂ Heterojunction Photocatalysts. <i>Catalysts</i> , 2019, 9, 41.	1.6	12
74	Rutile TiO ₂ nanorod arrays incorporated with γ -alumina for high efficiency dye sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	4
75	Catalytic Activity of Ni _{1-x} Li _{2x} WO ₄ Particles for Carbon Dioxide Photoreduction. <i>Catalysts</i> , 2019, 9, 467.	1.6	6
76	A facile green approach of ZnO NRs synthesized via <i>Ricinus communis</i> L. leaf extract for Biological activities. <i>Materials Science and Engineering C</i> , 2019, 103, 109844.	3.8	27
77	Enhanced photoexcited carrier separation in CdS@SnS ₂ heteronanostructures: a new 1D@0D visible-light photocatalytic system for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13614-13628.	5.2	102
78	Effect of Cu Insertion into SnO ₂ Framework on Surface Properties and Carbonyl Sulfide Adsorption Performances. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6609-6616.	0.9	2
79	Oxygen Transfer Capacity of Pseudobrookite Particles Derived from Ilmenite Mineral (FeTiO_3) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2019, 19, 6590-6600.	0.9	3
80	Improvement on Sulfur Capacity of Cu@Al-Based Desulfurization Sorbents with Various Transition Metal Additives for Coal Derived Synthetic Gas Cleaning. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6641-6646.	0.9	5
81	Photocatalytic Hydrogen Production: Role of Sacrificial Reagents on the Activity of Oxide, Carbon, and Sulfide Catalysts. <i>Catalysts</i> , 2019, 9, 276.	1.6	214
82	Improvement of oxygen transfer capacity by migration of oxygen defects formed in CuxMg _{1-x} FeyTi _{2-y} Oz particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 355-365.	2.9	5
83	Strategy for improving the visible photocatalytic H ₂ evolution activity of 2D graphitic carbon nitride nanosheets through the modification with metal and metal oxide nanocomponents. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 538-551.	10.8	64
84	Oxygen transfer capacity of the copper component introduced into the defected-MgMnAlO ₄ spinel structure in CH ₄ -CO ₂ /air redox cycles. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1971-1982.	1.2	5
85	Carbon Dioxide Photoreduction on the Bi ₂ S ₃ /MoS ₂ Catalyst. <i>Catalysts</i> , 2019, 9, 998.	1.6	36
86	Rapid removal of methyl orange by a UV Fenton-like reaction using magnetically recyclable Fe-oxalate complex prepared with rice husk. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 372-379.	2.9	11
87	Improved photoelectrical performance of single crystalline rutile TiO ₂ nanorod arrays incorporating γ -alumina for high efficiency dye-sensitized solar cells. <i>Materials Letters</i> , 2019, 237, 204-208.	1.3	9
88	Capturing ability for COS gas by a strong bridge bonding of a pair of potassium anchored on carbonate of activated carbon at low temperatures. <i>Separation and Purification Technology</i> , 2019, 211, 421-429.	3.9	14
89	Importance of halide perovskites for next generation solar cells – A review. <i>Materials Letters</i> , 2018, 219, 198-200.	1.3	39
90	Natural solar light-driven preparation of plasmonic resonance-based alloy and core-shell catalyst for sustainable enhanced hydrogen production: Green approach and characterization. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 137-150.	10.8	34

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91	Photoreduction of CO ₂ into CH ₄ using Bi ₂ S ₃ -TiO ₂ double-layered dense films. Korean Journal of Chemical Engineering, 2018, 35, 1089-1098.	1.2	11
92	Reliable oxygen transfer in MgAl ₂ O ₄ spinel through the reversible formation of oxygen vacancies by Cu ²⁺ /Fe ³⁺ anchoring. Applied Energy, 2018, 219, 138-150.	5.1	32
93	Preparation of dye-sensitized solar cells using template free TiO ₂ nanotube arrays for enhanced power conversion. Journal of Sol-Gel Science and Technology, 2018, 85, 743-752.	1.1	6
94	Reliable hydrogen production from methanol photolysis in aqueous solution by a harmony between In and Zn in bimetallic zinc indium sulfide. Materials Research Bulletin, 2018, 100, 234-242.	2.7	11
95	Rare earth metal Gd influenced defect sites in N doped TiO ₂ : Defect mediated improved charge transfer for enhanced photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2018, 43, 2073-2082.	3.8	72
96	Fabrication of core@interface:shell structured CuS@CuInS ₂ :In ₂ S ₃ particles for highly efficient solar hydrogen production. Applied Surface Science, 2018, 451, 86-98.	3.1	24
97	Change of band-gap position of MTiO ₂ particle doped with 3d-transition metal and control of product selectivity on carbon dioxide photoreduction. Korean Journal of Chemical Engineering, 2018, 35, 1009-1018.	1.2	5
98	Influence of small amount of Mg incorporated into hexagonal ZnO crystal on cell performance in membrane free Zinc-Nickel redox battery. Journal of Industrial and Engineering Chemistry, 2018, 64, 318-327.	2.9	7
99	Solar light response with noble metal-free highly active copper(II) phosphate/titanium dioxide nanoparticle/copper(II) oxide nanocomposites for photocatalytic hydrogen production. Journal of Alloys and Compounds, 2018, 750, 292-303.	2.8	21
100	Smart Hybridization of Au Coupled CdS Nanorods with Few Layered MoS ₂ Nanosheets for High Performance Photocatalytic Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 6445-6457.	3.2	121
101	Hydrothermal growth of two dimensional hierarchical MoS ₂ nanospheres on one dimensional CdS nanorods for high performance and stable visible photocatalytic H ₂ evolution. Applied Surface Science, 2018, 433, 240-248.	3.1	50
102	Reduction and oxidation performance evaluation of manganese-based iron, cobalt, nickel, and copper bimetallic oxide oxygen carriers for chemical-looping combustion. Applied Thermal Engineering, 2018, 128, 1273-1281.	3.0	21
103	Effective hydrogen production from propane steam reforming using M/NiO/YSZ catalysts (M = Ru, Rh). Tj ETQq1 1 0.784314 rgBT /Ov 2.2 38	2.2	38
104	Fabrication of flower-like copper cobaltite/graphitic-carbon nitride (CuCo ₂ O ₄ /g-C ₃ N ₄) composite with superior photocatalytic activity. Journal of Industrial and Engineering Chemistry, 2018, 57, 405-415.	2.9	63
105	Synthesis and characterization of Ni _{2-x} Pd _x MnO ₄ /Al ₂ O ₃ catalysts for hydrogen production via propane steam reforming. Chemical Engineering Journal, 2018, 334, 1668-1678.	6.6	22
106	Optical properties of Cu-incorporated ZnO (Cu _x Zn _y O) nanoparticles and their photocatalytic hydrogen production performances. Materials Chemistry and Physics, 2018, 205, 206-209.	2.0	22
107	Effective hydrogen productions from propane steam reforming over spinel-structured metal-manganese oxide redox couple catalysts. International Journal of Energy Research, 2018, 42, 429-446.	2.2	17
108	Effect of Ce Doping of a Co/Al ₂ O ₃ Catalyst on Hydrogen Production via Propane Steam Reforming. Catalysts, 2018, 8, 413.	1.6	12

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109	Ni Substitution Effect on the Fe Position of Spinel Fe ₂ MnO ₄ Particles for Chemical Looping Combustion. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6378-6384.	0.9	4
110	Significantly enhanced oxygen transfer capacity by the oxygen delivery channels formed in the inverse spinel Cu _x Mg _{2-x} Mn _y Ti _{1-y} O _{4.0} particle. <i>International Journal of Energy Research</i> , 2018, 42, 3943-3956.	2.2	4
111	Selective methane production from visible-light-driven photocatalytic carbon dioxide reduction using the surface plasmon resonance effect of superfine silver nanoparticles anchored on lithium titanium dioxide nanocubes (Ag@LiTiO ₂). <i>Applied Catalysis B: Environmental</i> , 2018, 237, 895-910.	10.8	37
112	Activity Tests of Macro-Meso Porous Catalysts over Metal Foam Plate for Steam Reforming of Bio-Ethanol. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6385-6392.	0.9	1
113	Fabrication of a regenerable Ni supported NiO-MgO catalyst for methane steam reforming by exsolution. <i>Journal of Power Sources</i> , 2018, 397, 318-324.	4.0	33
114	Effect of Manganese Oxide over Cu-Mn-Based Oxygen Carriers for Chemical Looping Combustion. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6475-6483.	0.9	1
115	Cost-effective and dynamic carbon dioxide conversion into methane using a CaTiO ₃ @Ni-Pt catalyst in a photo-thermal hybrid system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 219-232.	2.0	14
116	Photoreduction of Carbon Dioxide to Methane Over Sb _{1.5} Sn _{8.5} x Ti _x O _{19.0} with High Conductivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6369-6377.	0.9	0
117	Adsorption/desorption behavior of carbonyl sulfide gas on Scheelite type MWO ₄ adsorbent. <i>Separation and Purification Technology</i> , 2018, 207, 58-67.	3.9	19
118	Synthesis of basalt fiber@Zn _{1-x} Mg _x O core/shell nanostructures for selective photoreduction of CO ₂ to CO. <i>Applied Surface Science</i> , 2017, 407, 109-116.	3.1	17
119	Bright green emission from f-MWCNT embedded co-doped Bi ³⁺ + Tb ³⁺ :polyvinyl alcohol polymer nanocomposites for photonic applications. <i>RSC Advances</i> , 2017, 7, 15084-15095.	1.7	45
120	Improvement of reduction and oxidation performance of MMgO _x (M = Fe, Co, Ni, and Cu) particles for chemical looping combustion. <i>Powder Technology</i> , 2017, 312, 237-247.	2.1	19
121	Ag ₂ S quantum dot sensitized zinc oxide photoanodes for environment friendly photovoltaic devices. <i>Materials Letters</i> , 2017, 199, 188-191.	1.3	32
122	Energy transfer (In ³⁺ → Eu ³⁺) based Polyvinyl Alcohol polymer composites for bright red luminescence. <i>Optical Materials</i> , 2017, 70, 41-49.	1.7	10
123	Effect of Ca/Ti Ratio on the Core-Shell Structured CaTiO ₃ @basalt Fiber for Effective Photoreduction of Carbon Dioxide. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 397-400.	1.0	13
124	Synergies between Ni, Co, and Mn ions in trimetallic Ni _{1-x} CoxMnO ₄ catalysts for effective hydrogen production from propane steam reforming. <i>Renewable Energy</i> , 2017, 113, 248-256.	4.3	20
125	Characterization of core-shell-structured ZnO@Sb ₂ S ₃ particles for effective hydrogen production from water photo spitting. <i>Ceramics International</i> , 2017, 43, 11250-11259.	2.3	26
126	Bright red luminescence from co-doped Dy ³⁺ /Eu ³⁺ : CaLa ₂ ZnO ₅ phosphors for photonic applications. <i>Journal of Alloys and Compounds</i> , 2017, 721, 554-562.	2.8	20

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127	Effective photoconversion of CO ₂ into CH ₄ over Ti ₃ O ₅ /MCM-41 nanoporous catalyst photosensitized by a ruthenium dye. Korean Journal of Chemical Engineering, 2017, 34, 1669-1677.	1.2	8
128	Facile synthesis and photocatalytic activity of cubic spinel urchin-like copper cobaltite architecture. Materials Research Bulletin, 2017, 91, 108-113.	2.7	26
129	Effective hydrogen production from ethanol steam reforming using Co/Mg co-doped SiO ₂ @Co _{1-x} Mg _x O catalyst. Journal of Industrial and Engineering Chemistry, 2017, 51, 140-152.	2.9	22
130	Synthesis of microcrystalline ZnO as an anodic material via a solvothermal method, and its electrochemical performance in Ni/Zn redox battery. Journal of Industrial and Engineering Chemistry, 2017, 46, 111-118.	2.9	12
131	Improved cell performances in Ni/Zn redox batteries fabricated by ZnO materials with various morphologies synthesized using amine chelates. Journal of Industrial and Engineering Chemistry, 2017, 56, 463-471.	2.9	6
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