Siang-Piao Chai

List of Publications by Year
in descending order

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181 papers	18,166 citations	26567 56 h-index	12558 132 g-index
185 all docs	185 docs citations	185 times ranked	19536 citing authors

#	Article	IF	Citations
1	Synergistic effects of the hybridization between boron-doped carbon quantum dots and n/n-type g-C3N4 homojunction for boosted visible-light photocatalytic activity. Environmental Science and Pollution Research, 2022, 29, 41272-41292.	2.7	11
2	Insights from density functional theory calculations on heteroatom P-doped ZnIn2S4 bilayer nanosheets with atomic-level charge steering for photocatalytic water splitting. Scientific Reports, 2022, 12, 1927.	1.6	20
3	MXeneâ"€A New Paradigm Toward Artificial Nitrogen Fixation for Sustainable Ammonia Generation: Synthesis, Properties, and Future Outlook. , 2022, 4, 212-245.		20
4	Red Phosphorus: An Up-and-Coming Photocatalyst on the Horizon for Sustainable Energy Development and Environmental Remediation. Chemical Reviews, 2022, 122, 3879-3965.	23.0	58
5	Uncovering the multifaceted roles of nitrogen defects in graphitic carbon nitride for selective photocatalytic carbon dioxide reduction: a density functional theory study. Physical Chemistry Chemical Physics, 2022, 24, 11124-11130.	1.3	4
6	Recent Advances in Nanoscale Engineering of Ternary Metal Sulfide-Based Heterostructures for Photocatalytic Water Splitting Applications. Energy & Fuels, 2022, 36, 4250-4267.	2.5	36
7	Charge Modulation at Atomicâ€Level through Substitutional Sulfur Doping into Atomically Thin Bi₂WO₆ toward Promoting Photocatalytic CO₂ Reduction. ChemSusChem, 2022, 15, .	3.6	18
8	Allotropes selection apropos of photocatalytic CO2 reduction from first principles studies. Materials Today Physics, 2022, , 100751.	2.9	3
9	Nanostructural dimension and oxygen vacancy synergistically induced photoactivity across high surface area monodispersed AuNPs/ZnO nanorods heterojunction. Journal of Alloys and Compounds, 2022, 920, 165836.	2.8	13
10	Photocatalytic Hydrogen Evolution from Artificial Seawater Splitting over Amorphous Carbon Nitride: Optimization and Process Parameters Study via Response Surface Modeling. Materials, 2022, 15, 4894.	1.3	2
11	Metal-free n/nâ€"junctioned graphitic carbon nitride (g-C3N4): a study to elucidate its charge transfer mechanism and application for environmental remediation. Environmental Science and Pollution Research, 2021, 28, 4388-4403.	2.7	22
12	Z-scheme photocatalyst sheets with P-doped twinned Zn0.5Cd0.5S1-x and Bi4NbO8Cl connected by carbon electron mediator for overall water splitting under ambient condition. Chemical Engineering Journal, 2021, 404, 127030.	6.6	36
13	Protonâ€Functionalized Graphitic Carbon Nitride for Efficient Metalâ€Free Destruction of Escherichia coli under Lowâ€Power Light Irradiation. Chemistry - A European Journal, 2021, 27, 3085-3090.	1.7	7
14	Broadening cognizance on atomically thin photocatalysts. Materials Today, 2021, 43, 198-212.	8.3	19
15	Metalâ€"Organic Framework Decorated Cuprous Oxide Nanowires for Longâ€lived Charges Applied in Selective Photocatalytic CO₂ Reduction to CH₄. Angewandte Chemie, 2021, 133, 8536-8540.	1.6	11
16	Metalâ€"Organic Framework Decorated Cuprous Oxide Nanowires for Longâ€lived Charges Applied in Selective Photocatalytic CO₂ Reduction to CH₄. Angewandte Chemie - International Edition, 2021, 60, 8455-8459.	7.2	152
17	A Synergistic Combination of Pâ€doped Zn_{0.5}Cd_{0.5}S and CoP for Dualâ€Stage Electron Trapping and Its Application in Seawater Splitting. Solar Rrl, 2021, 5, 2100016.	3.1	22
18	Heterojunction photocatalysts for artificial nitrogen fixation: fundamentals, latest advances and future perspectives. Nanoscale, 2021, 13, 7011-7033.	2.8	62

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19	Atomistic Insights into the Reformation of CH₄ with CO₂ on Metal-Free gC₃N₄: Unraveling the Reaction Mechanisms Using First-Principles DFT Calculations. Journal of Physical Chemistry C, 2021, 125, 23021-23028.	1.5	7
20	Photo-Driven Reduction of Carbon Dioxide: A Sustainable Approach Towards Achieving Carbon Neutrality Goal. Frontiers in Chemical Engineering, 2021, 3, .	1.3	4
21	Overall pure water splitting using one-dimensional P-doped twinned Zn0.5Cd0.5S1-x nanorods via synergetic combination of long-range ordered homojunctions and interstitial S vacancies with prolonged carrier lifetime. Applied Catalysis B: Environmental, 2020, 262, 118309.	10.8	54
22	Insights on the impact of doping levels in oxygen-doped gC3N4 and its effects on photocatalytic activity. Applied Surface Science, 2020, 504, 144427.	3.1	69
23	Interfacial engineering of a zinc blende/wurtzite homojunction photocatalyst through hybridization with a cobalt phosphide co-catalyst for enhanced visible-light-driven photocatalytic H₂ evolution. Sustainable Energy and Fuels, 2020, 4, 1822-1827.	2.5	14
24	An insight into perovskite-based photocatalysts for artificial photosynthesis. Sustainable Energy and Fuels, 2020, 4, 973-984.	2.5	41
25	Energy level tuning of CdSe colloidal quantum dots in ternary 0D-2D-2D CdSe QD/B-rGO/O-gC3N4 as photocatalysts for enhanced hydrogen generation. Applied Catalysis B: Environmental, 2020, 265, 118592.	10.8	45
26	Nitrogen-doped carbon quantum dots-decorated 2D graphitic carbon nitride as a promising photocatalyst for environmental remediation: A study on the importance of hybridization approach. Journal of Environmental Management, 2020, 255, 109936.	3.8	50
27	Topotactic Transformation of Bismuth Oxybromide into Bismuth Tungstate: Bandgap Modulation of Single-Crystalline {001}-Faceted Nanosheets for Enhanced Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2020, 12, 26991-27000.	4.0	53
28	Tuning the electronic band structure of graphitic carbon nitride by breaking intramolecular bonds: A simple and effective approach for enhanced photocatalytic hydrogen production. Applied Surface Science, 2020, 529, 146600.	3.1	9
29	Recent advances in homojunction-based photocatalysis for sustainable environmental remediation and clean energy generation. Applied Materials Today, 2020, 20, 100741.	2.3	28
30	Zâ€Scheme Photocatalytic Systems for Solar Water Splitting. Advanced Science, 2020, 7, 1903171.	5.6	295
31	Highly-efficient photocatalytic disinfection of Escherichia coli by copper-doped molybdenum disulfide/bismuth sulfide under low-powered visible light irradiation. Catalysis Communications, 2020, 140, 106003.	1.6	10
32	Recent progress in two-dimensional nanomaterials for photocatalytic carbon dioxide transformation into solar fuels. Materials Today Sustainability, 2020, 9, 100037.	1.9	29
33	Electrospun chitosan/polyethylene-oxide (PEO)/halloysites (HAL) membranes for bone regeneration applications. Applied Clay Science, 2020, 190, 105601.	2.6	59
34	Fabrication of Bi₂WO₆/Cu/WO₃ Allâ€Solidâ€State Zâ€Scheme Composite Photocatalyst to Improve CO₂ Photoreduction under Visible Light Irradiation. ChemCatChem, 2019, 11, 6431-6438.	1.8	58
35	2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. Chinese Chemical Letters, 2019, 30, 2065-2088.	4.8	90
36	Effective steering of charge flow through synergistic inducing oxygen vacancy defects and p-n heterojunctions in 2D/2D surface-engineered Bi2WO6/BiOI cascade: Towards superior photocatalytic CO2 reduction activity. Chemical Engineering Journal, 2019, 372, 1183-1193.	6.6	210

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37	Engineering surface oxygen defects on tungsten oxide to boost photocatalytic oxygen evolution from water splitting. Chemical Communications, 2019, 55, 6265-6268.	2.2	29
38	Midgap-state-mediated two-step photoexcitation in nitrogen defect-modified g-C₃N₄ atomic layers for superior photocatalytic CO₂ reduction. Catalysis Science and Technology, 2019, 9, 2335-2343.	2.1	83
39	Energy Band Gap Modulation in Nd-Doped BiFeO₃/SrRuO₃ Heteroepitaxy for Visible Light Photoelectrochemical Activity. ACS Applied Materials & Interfaces, 2019, 11, 1655-1664.	4.0	25
40	Molybdenum disulfide quantum dots decorated bismuth sulfide as a superior noble-metal-free photocatalyst for hydrogen evolution through harnessing a broad solar spectrum. Applied Catalysis B: Environmental, 2018, 232, 117-123.	10.8	36
41	Simultaneous generation of oxygen vacancies on ultrathin BiOBr nanosheets during visible-light-driven CO2 photoreduction evoked superior activity and long-term stability. Catalysis Today, 2018, 314, 20-27.	2.2	86
42	Tailoring the properties of oxygenated graphene with different oxidation degrees for noble-metal-free photocatalytic hydrogen evolution. Catalysis Today, 2018, 315, 93-102.	2.2	16
43	Tunable Spectrum Selectivity for Multiphoton Absorption with Enhanced Visible Light Trapping in ZnO Nanorods. Small, 2018, 14, e1704053.	5.2	16
44	A novel repeated self-healing epoxy composite with alginate multicore microcapsules. Journal of Materials Chemistry A, 2018, 6, 8470-8478.	5.2	85
45	Engineering nanoscale pâ€"n junction via the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 3181-3194.	5.2	143
46	Carbon dioxide hydrogenation to methanol over multi-functional catalyst: Effects of reactants adsorption and metal-oxide(s) interfacial area. Journal of Industrial and Engineering Chemistry, 2018, 62, 156-165.	2.9	47
47	The morphological impact of siliceous porous carriers on copper-catalysts for selective direct CO2 hydrogenation to methanol. International Journal of Hydrogen Energy, 2018, 43, 9334-9342.	3.8	36
48	Sub-2 nm Pt-decorated Zn0.5Cd0.5S nanocrystals with twin-induced homojunctions for efficient visible-light-driven photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2018, 224, 360-367.	10.8	133
49	Copper-doped flower-like molybdenum disulfide/bismuth sulfide photocatalysts for enhanced solar water splitting. International Journal of Hydrogen Energy, 2018, 43, 748-756.	3.8	48
50	A study of water permeation using glycerol as the draw solution with thin film composite membranes in forward osmosis and pressure retarded osmosis configurations. AIP Conference Proceedings, 2018, , .	0.3	4
51	Surface modified alginate multicore microcapsules and their application in self-healing epoxy coatings for metallic protection. Materials Chemistry and Physics, 2018, 215, 69-80.	2.0	29
52	Transfer of wafer-scale graphene onto arbitrary substrates: steps towards the reuse and recycling of the catalyst. 2D Materials, 2018, 5, 042001.	2.0	7
53	CHAPTER 4. Functionalization of Chemically Derived Graphene for Solar Energy Conversion. RSC Nanoscience and Nanotechnology, 2018, , 102-127.	0.2	0
54	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 4558-4569.	4.0	128

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55	All-solid-state Z-scheme photocatalyst with carbon nanotubes as an electron mediator for hydrogen evolution under simulated solar light. Chemical Engineering Journal, 2017, 316, 41-49.	6.6	87
56	Harnessing Visâ€"NIR broad spectrum for photocatalytic CO2 reduction over carbon quantum dots-decorated ultrathin Bi2WO6 nanosheets. Nano Research, 2017, 10, 1720-1731.	5.8	135
57	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. RSC Advances, 2017, 7, 15644-15693.	1.7	263
58	Unravelling charge carrier dynamics in protonated g-C3N4 interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO2 reduction: A combined experimental and first-principles DFT study. Nano Research, 2017, 10, 1673-1696.	5.8	376
59	Bismuth sulphide-modified molybdenum disulphide as an efficient photocatalyst for hydrogen production under simulated solar light. Catalysis Communications, 2017, 98, 66-70.	1.6	25
60	Self-Assembled Heteroepitaxial AuNPs/SrTiO₃: Influence of AuNPs Size on SrTiO₃ Band Gap Tuning for Visible Light-Driven Photocatalyst. Journal of Physical Chemistry C, 2017, 121, 13487-13495.	1.5	20
61	Two-dimensional bismuth oxybromide coupled with molybdenum disulphide for enhanced dye degradation using low power energy-saving light bulb. Journal of Environmental Management, 2017, 197, 63-69.	3.8	25
62	Photocatalytic degradation of industrial pulp and paper mill effluent using synthesized magnetic Fe 2 O 3 -TiO 2 : Treatment efficiency and characterizations of reused photocatalyst. Journal of Environmental Management, 2017, 187, 298-310.	3.8	109
63	The Impact of Reaction Parameters on Graphene-like Material Synthesized Using Chemical Vapour Deposition. Procedia Engineering, 2017, 184, 460-468.	1.2	4
64	Using one-step facile and solvent-free mechanochemical process to synthesize photoactive Fe2O3-TiO2 for treating industrial wastewater. Journal of Alloys and Compounds, 2017, 695, 496-507.	2.8	34
65	Photocatalytic reduction of CO 2 with H 2 O over graphene oxide-supported oxygen-rich TiO 2 hybrid photocatalyst under visible light irradiation: Process and kinetic studies. Chemical Engineering Journal, 2017, 308, 248-255.	6.6	141
66	Graphitic Carbon Nitride (g-C₃N₄)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. Chemical Reviews, 2016, 116, 7159-7329.	23.0	5,505
67	Simultaneous growth of monolayer graphene on Niâ€"Cu bimetallic catalyst by atmospheric pressure CVD process. RSC Advances, 2016, 6, 41447-41452.	1.7	2
68	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. Applied Materials Today, 2016, 4, 9-16.	2.3	110
69	Oxygenâ€Deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO₂ Reduction into Renewable Carbonâ€Neutral Fuels. ChemCatChem, 2016, 8, 3074-3081.	1.8	120
70	Oxygen vacancy induced Bi₂WO₆ for the realization of photocatalytic CO₂ reduction over the full solar spectrum: from the UV to the NIR region. Chemical Communications, 2016, 52, 14242-14245.	2.2	248
71	Electrosprayed Multi-Core Alginate Microcapsules as Novel Self-Healing Containers. Scientific Reports, 2016, 6, 34674.	1.6	35
72	Mechanisms of graphene fabrication through plasma-induced layer-by-layer thinning. Carbon, 2016, 105, 496-509.	5.4	27

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73	Influence of the processing methods on the properties of poly(lactic acid)/halloysite nanocomposites. Polymer Composites, 2016, 37, 861-869.	2.3	37
74	Synthesis of Single-layer Graphene: A Review of Recent Development. Procedia Chemistry, 2016, 19, 916-921.	0.7	100
75	Sequential synthesis of free-standing high quality bilayer graphene from recycled nickel foil. Carbon, 2016, 96, 268-275.	5.4	32
76	Enhancement in the photocatalytic activity of carbon nitride through hybridization with light-sensitive AgCl for carbon dioxide reduction to methane. Catalysis Science and Technology, 2016, 6, 744-754.	2.1	50
77	Visible-light-activated oxygen-rich TiO2 as next generation photocatalyst: Importance of annealing temperature on the photoactivity toward reduction of carbon dioxide. Chemical Engineering Journal, 2016, 283, 1254-1263.	6.6	66
78	Heterostructured AgX/g-C3N4 (X = Cl and Br) nanocomposites via a sonication-assisted deposition-precipitation approach: Emerging role of halide ions in the synergistic photocatalytic reduction of carbon dioxide. Applied Catalysis B: Environmental, 2016, 180, 530-543.	10.8	277
79	Visible-light-active oxygen-rich TiO2 decorated 2D graphene oxide with enhanced photocatalytic activity toward carbon dioxide reduction. Applied Catalysis B: Environmental, 2015, 179, 160-170.	10.8	149
80	An application of response surface methodology for optimizing coagulation process of raw industrial effluent using Cassia obtusifolia seed gum together with alum. Industrial Crops and Products, 2015, 70, 107-115.	2.5	67
81	Effects of sodium precursors and gelling agents on CO₂ sorption performance of sodium zirconate. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 565-579.	0.8	7
82	Toward high performance epoxy/halloysite nanocomposites: New insights based on rheological, curing, and impact properties. Materials & Design, 2015, 68, 42-53.	5.1	55
83	One-pot synthesis of Ag-MWCNT@TiO2 coreâ€“shell nanocomposites for photocatalytic reduction of CO2 with water under visible light irradiation. Chemical Engineering Journal, 2015, 278, 272-278.	6.6	72
84	Enhanced Evaporation Strength through Fast Water Permeation in Graphene-Oxide Deposition. Scientific Reports, 2015, 5, 11896.	1.6	36
85	The effects of process parameters on carbon dioxide reforming of methane over Coâ€“Moâ€“MgO/MWCNTs nanocomposite catalysts. Fuel, 2015, 158, 129-138.	3.4	36
86	A facile method for preparation of self-healing epoxy composites: using electrospun nanofibers as microchannels. Journal of Materials Chemistry A, 2015, 3, 16005-16012.	5.2	38
87	Preparation of self-supported crystalline merlinoite-type zeolite W membranes through vacuum filtration and crystallization for CO₂/CH₄ separations. New Journal of Chemistry, 2015, 39, 4135-4140.	1.4	9
88	Surface charge modification via protonation of graphitic carbon nitride (g-C3N4) for electrostatic self-assembly construction of 2D/2D reduced graphene oxide (rGO)/g-C3N4 nanostructures toward enhanced photocatalytic reduction of carbon dioxide to methane. Nano Energy, 2015, 13, 757-770.	8.2	718
89	Heteroatom doped graphene in photocatalysis: A review. Applied Surface Science, 2015, 358, 2-14.	3.1	298
90	Noble metal modified reduced graphene oxide/TiO2 ternary nanostructures for efficient visible-light-driven photoreduction of carbon dioxide into methane. Applied Catalysis B: Environmental, 2015, 166-167, 251-259.	10.8	196

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91	Graphene oxide as a structure-directing agent for the two-dimensional interface engineering of sandwich-like grapheneâ€"g-C₃N₄ hybrid nanostructures with enhanced visible-light photoreduction of CO₂ to methane. Chemical Communications, 2015, 51, 858-861.	2.2	393
92	Heterojunction engineering of graphitic carbon nitride (g-C₃N₄) via Pt loading with improved daylight-induced photocatalytic reduction of carbon dioxide to methane. Dalton Transactions, 2015, 44, 1249-1257.	1.6	307
93	CO2 Photocatalytic Reduction: Photocatalyst Choice and Product Selectivity. Environmental Chemistry for A Sustainable World, 2015, , 71-104.	0.3	4
94	The study of reverse osmosis on glycerin solution filtration: Dead-end and crossflow filtrations, transport mechanism, rejection and permeability investigations. Desalination, 2014, 352, 66-81.	4.0	16
95	Synergistic effect of graphene as a co-catalyst for enhanced daylight-induced photocatalytic activity of Zn_{0.5}Cd_{0.5}S synthesized via an improved one-pot co-precipitation-hydrothermal strategy. RSC Advances, 2014, 4, 59676-59685.	1.7	61
96	Pyrolysis of Palm Waste for the Application of Direct Carbon Fuel Cell. Energy Procedia, 2014, 61, 878-881.	1.8	7
97	Synthesis and characterization of graphene and carbon nanotubes: A review on the past and recent developments. Journal of Industrial and Engineering Chemistry, 2014, 20, 1171-1185.	2.9	307
98	Mechanisms of graphene growth by chemical vapour deposition on transition metals. Carbon, 2014, 70, 1-21.	5.4	284
99	Dehydration of glycerin solution using pervaporation: HybSi and polydimethylsiloxane membranes. Journal of Membrane Science, 2014, 450, 440-446.	4.1	16
100	Facetâ€Dependent Photocatalytic Properties of TiO₂â€Based Composites for Energy Conversion and Environmental Remediation. ChemSusChem, 2014, 7, 690-719.	3.6	307
101	Phosphorus removal by NF90 membrane: Optimisation using central composite design. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1260-1269.	2.7	17
102	Synthesis and characterisation of poly (lactic acid)/halloysite bionanocomposite films. Journal of Composite Materials, 2014, 48, 3705-3717.	1.2	107
103	Highly reactive {001} facets of TiO2-based composites: synthesis, formation mechanism and characterization. Nanoscale, 2014, 6, 1946.	2.8	412
104	An overview: synthesis of thin films/membranes of metal organic frameworks and its gas separation performances. RSC Advances, 2014, 4, 54322-54334.	1.7	65
105	Continuous polycrystalline ZIF-8 membrane supported on CO₂-selective mixed matrix supports for CO₂/CH₄ separation. RSC Advances, 2014, 4, 52461-52466.	1.7	14
106	Enhanced Daylight-Induced Photocatalytic Activity of Solvent Exfoliated Graphene (SEG)/ZnO Hybrid Nanocomposites toward Degradation of Reactive Black 5. Industrial & Engineering Chemistry Research, 2014, 53, 17333-17344.	1.8	79
107	Band gap engineered, oxygen-rich TiO2 for visible light induced photocatalytic reduction of CO2. Chemical Communications, 2014, 50, 6923.	2.2	90
108	Visible-light-driven MWCNT@TiO₂ coreâ€"shell nanocomposites and the roles of MWCNTs on the surface chemistry, optical properties and reactivity in CO₂ photoreduction. RSC Advances, 2014, 4, 24007-24013.	1.7	43

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109	Modification of MWCNT@TiO2 coreâ€"shell nanocomposites with transition metal oxide dopants for photoreduction of carbon dioxide into methane. Applied Surface Science, 2014, 319, 37-43.	3.1	33
110	Self-assembly of nitrogen-doped TiO2 with exposed {001} facets on a graphene scaffold as photo-active hybrid nanostructures for reduction of carbon dioxide to methane. Nano Research, 2014, 7, 1528-1547.	5.8	236
111	A comprehensive study on coagulant performance and floc characterization of natural Cassia obtusifolia seed gum in treatment of raw pulp and paper mill effluent. Industrial Crops and Products, 2014, 61, 317-324.	2.5	108
112	An enhanced hybrid membrane of ZIF-8 and zeolite T for CO2/CH4 separation. CrystEngComm, 2014, 16, 3072-3075.	1.3	12
113	Development of a hybrid membrane through coupling of high selectivity zeolite T on ZIF-8 intermediate layer and its performance in carbon dioxide and methane gas separation. Microporous and Mesoporous Materials, 2014, 196, 79-88.	2.2	17
114	Direct use of as-synthesized multi-walled carbon nanotubes for carbon dioxide reforming of methane for producing synthesis gas. Chemical Engineering Journal, 2014, 257, 200-208.	6.6	40
115	Enhanced visible light responsive MWCNT/TiO2 coreâ€"shell nanocomposites as the potential photocatalyst for reduction of CO2 into methane. Solar Energy Materials and Solar Cells, 2014, 122, 183-189.	3.0	97
116	A well inter-grown ZIF-8 membrane synthesized via two-step hydrothermal synthesis on coarse Î±-Al2O3 support. Materials Letters, 2014, 129, 162-165.	1.3	10
117	Performance studies of phosphorus removal using cross-flow nanofiltration. Desalination and Water Treatment, 2014, 52, 5974-5982.	1.0	11
118	Combustion-synthesized Nickel-based Catalysts for the Production of Hydrogen from Steam Reforming of Methane. Energy Procedia, 2014, 61, 910-913.	1.8	2
119	Synthesis and performance of microporous inorganic membranes for CO2 separation: a review. Journal of Porous Materials, 2013, 20, 1457-1475.	1.3	34
120	Parametric Study of Methane Catalytic CVD into Singleâ€walled Carbon Nanotubes Using Spinâ€coated Iron Nanoparticles. Chemical Vapor Deposition, 2013, 19, 53-60.	1.4	4
121	Review of methanol reforming-Cu-based catalysts, surface reaction mechanisms, and reaction schemes. International Journal of Hydrogen Energy, 2013, 38, 9541-9552.	3.8	223
122	Effective synthesis of carbon nanotubes via catalytic decomposition of methane: Influence of calcination temperature on metalâ€"support interaction of Coâ€"Mo/MgO catalyst. Journal of Physics and Chemistry of Solids, 2013, 74, 1553-1559.	1.9	37
123	EVALUATION OF THE EFFECT OF CATALYST TEXTURAL PROPERTIES ON EFFECTIVE SYNTHESIS OF CARBON NANOTUBES. International Journal of Nanoscience, 2013, 12, 1350030.	0.4	0
124	Reduced graphene oxide-TiO2 nanocomposite as a promising visible-light-active photocatalyst for the conversion of carbon dioxide. Nanoscale Research Letters, 2013, 8, 465.	3.1	323
125	Physico-chemical characterisation of chitosan/halloysite composite membranes. Polymer Testing, 2013, 32, 265-271.	2.3	120
126	Effects of Growth Parameters on the Morphology of Aligned Carbon Nanotubes Synthesized by Floating Catalyst and the Growth Model. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 765-777.	1.0	9

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127	Identification of the Effect of Cobalt Contents on Effective Synthesis of Carbon Nanotubes from Methane Decomposition. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 75-87.	1.0	7
128	Catalytic Decomposition of Methane to Carbon Nanotubes and Hydrogen: The Effect of Metal Loading on the Activity of CoO-MoO/Al₂O₃Catalyst. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 158-170.	1.0	13
129	Growth of uniform thin-walled carbon nanotubes with spin-coated Fe catalyst and the correlation between the pre-growth catalyst size and the nanotube diameter. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	11
130	Growth of carbon nanotubes over non-metallic based catalysts: A review on the recent developments. Catalysis Today, 2013, 217, 1-12.	2.2	37
131	Control of iron nanoparticle size by manipulating PEGâ€"ethanol colloidal solutions and spin-coating parameters for the growth of single-walled carbon nanotubes. Particuology, 2013, 11, 394-400.	2.0	15
132	Direct growth of carbon nanotubes on Ni/TiO2 as next generation catalysts for photoreduction of CO2 to methane by water under visible light irradiation. RSC Advances, 2013, 3, 4505.	1.7	157
133	Amineâ€functionalization of multiâ€walled carbon nanotubes for adsorption of carbon dioxide. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 262-270.	0.8	5
134	Multi-walled carbon nanotubes modified with (3-aminopropyl)triethoxysilane for effective carbon dioxide adsorption. International Journal of Greenhouse Gas Control, 2013, 14, 65-73.	2.3	91
135	Synthesis of Single-Walled Carbon Nanotubes: Effects of Active Metals, Catalyst Supports, and Metal Loading Percentage. Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	26
136	Carbon Dioxide Conversion Over Carbon-Based Nanocatalysts. Journal of Nanoscience and Nanotechnology, 2013, 13, 4825-4837.	0.9	22
137	PRODUCTION OF CARBON NANOTUBES FROM CHEMICAL VAPOR DEPOSITION OF METHANE IN A CONTINUOUS ROTARY REACTOR SYSTEM. Chemical Engineering Communications, 2012, 199, 600-607.	1.5	15
138	Conventional processes and membrane technology for carbon dioxide removal from natural gas: A review. Journal of Natural Gas Chemistry, 2012, 21, 282-298.	1.8	150
139	Growth of carbon nanotubes on Si/SiO2 wafer etched by hydrofluoric acid under different etching durations. Applied Surface Science, 2012, 258, 5774-5777.	3.1	3
140	Fabrication and characterization of superhydrophobic surface by using water vapor impingement method. Applied Surface Science, 2012, 258, 6739-6744.	3.1	14
141	The role of water vapor in carbon nanotube formation via water-assisted chemical vapor deposition of methane. Journal of Industrial and Engineering Chemistry, 2012, 18, 1504-1511.	2.9	15
142	Synthesis and Applications of Grapheneâ€Based TiO₂ Photocatalysts. ChemSusChem, 2012, 5, 1868-1882.	3.6	226
143	Utilization of compressed natural gas for the production of carbon nanotubes. Journal of Natural Gas Chemistry, 2012, 21, 620-624.	1.8	6
144	Ultrafiltration of palm oilâ€"oleic acidâ€"glycerin solutions: Fouling mechanism identification, fouling mechanism analysis and membrane characterizations. Separation and Purification Technology, 2012, 98, 419-431.	3.9	36

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145	Optimisation of reaction conditions for the synthesis of singleâ€walled carbon nanotubes using response surface methodology. Canadian Journal of Chemical Engineering, 2012, 90, 489-505.	0.9	18
146	Synthesis of single-walled carbon nanotubes over a spin-coated Fe catalyst in an ethanolâ€"PEG colloidal solution. Carbon, 2012, 50, 960-967.	5.4	21
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