

# Wei Sea Chang

## List of Publications by Year in descending order

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126  
papers

13,421  
citations

66336

42  
h-index

21539

114  
g-index

129  
all docs

129  
docs citations

129  
times ranked

14753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic effects of the hybridization between boron-doped carbon quantum dots and n/n-type g-C <sub>3</sub> N <sub>4</sub> homojunction for boosted visible-light photocatalytic activity. <i>Environmental Science and Pollution Research</i> , 2022, 29, 41272-41292.	5.3	11
2	Insights from density functional theory calculations on heteroatom P-doped ZnIn <sub>2</sub> S <sub>4</sub> bilayer nanosheets with atomic-level charge steering for photocatalytic water splitting. <i>Scientific Reports</i> , 2022, 12, 1927.	3.3	20
3	MXene—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. <i>Chemical Reviews</i> , 2022, 122, 3879-3965.	47.7	58
5	Uncovering the multifaceted roles of nitrogen defects in graphitic carbon nitride for selective photocatalytic carbon dioxide reduction: a density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11124-11130.	2.8	4
6	Recent Advances in Nanoscale Engineering of Ternary Metal Sulfide-Based Heterostructures for Photocatalytic Water Splitting Applications. <i>Energy &amp; Fuels</i> , 2022, 36, 4250-4267.	5.1	36
7	Charge Modulation at Atomic-Level through Substitutional Sulfur Doping into Atomically Thin Bi <sub>2</sub> WO <sub>6</sub> toward Promoting Photocatalytic CO <sub>2</sub> Reduction. <i>ChemSusChem</i> , 2022, 15, .	6.8	18
8	Allotropes selection apropos of photocatalytic CO <sub>2</sub> reduction from first principles studies. <i>Materials Today Physics</i> , 2022, , 100751.	6.0	3
9	Photocatalytic Hydrogen Evolution from Artificial Seawater Splitting over Amorphous Carbon Nitride: Optimization and Process Parameters Study via Response Surface Modeling. <i>Materials</i> , 2022, 15, 4894.	2.9	2
10	Metal-free n/n-junctioned graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ): a study to elucidate its charge transfer mechanism and application for environmental remediation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 4388-4403.	5.3	22
11	Evolution of domain structure and ferroelectric polarization in praseodymium doped BiFeO <sub>3</sub> ceramics. <i>Materials Research Bulletin</i> , 2021, 133, 111054.	5.2	9
12	Z-scheme photocatalyst sheets with P-doped twinned Zn <sub>0.5</sub> Cd <sub>0.5</sub> S <sub>1-x</sub> and Bi <sub>4</sub> NbO <sub>8</sub> Cl connected by carbon electron mediator for overall water splitting under ambient condition. <i>Chemical Engineering Journal</i> , 2021, 404, 127030.	12.7	36
13	Proton-Functionalized Graphitic Carbon Nitride for Efficient Metal-Free Destruction of Escherichia coli under Low-Power Light Irradiation. <i>Chemistry - A European Journal</i> , 2021, 27, 3085-3090.	3.3	7
14	Metal-Organic Framework Decorated Cuprous Oxide Nanowires for Long-lived Charges Applied in Selective Photocatalytic CO <sub>2</sub> Reduction to CH <sub>4</sub> . <i>Angewandte Chemie</i> , 2021, 133, 8536-8540.	2.0	11
15	Metal-Organic Framework Decorated Cuprous Oxide Nanowires for Long-lived Charges Applied in Selective Photocatalytic CO <sub>2</sub> Reduction to CH <sub>4</sub> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8455-8459.	13.8	152
16	A Synergistic Combination of P-doped Zn <sub>0.5</sub> Cd <sub>0.5</sub> S and CoP for Dual-Stage Electron Trapping and Its Application in Seawater Splitting. <i>Solar Rrl</i> , 2021, 5, 2100016.	5.8	22
17	Improved polarization switching and piezoresponse in Nd and Mn co-doped BiFeO <sub>3</sub> ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 269, 115180.	3.5	3
18	Photostrictive behavior as the piezo-phototronic effect in InGaN/GaN multiple quantum wells. <i>Nano Energy</i> , 2021, 86, 106085.	16.0	4

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19	Atomistic Insights into the Reformation of CH <sub>4</sub> with CO <sub>2</sub> on Metal-Free gC <sub>3</sub> N <sub>4</sub> : Unraveling the Reaction Mechanisms Using First-Principles DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23021-23028.	3.1	7
20	Rational design of ordered Bi/ZnO nanorod arrays: surface modification, optical energy band alteration and switchable wettability study. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5213-5220.	5.8	2
21	Nonporous, Strong, Stretchable, and Transparent Electrospun Aromatic Polyurea Nanocomposites as Potential Anticorrosion Coating Films. <i>Nanomaterials</i> , 2021, 11, 2998.	4.1	8
22	Fractal grid-induced turbulence strength characterization via piezoelectric thin-film flapping velocimetry. <i>Scientific Reports</i> , 2021, 11, 23322.	3.3	2
23	Enhancement of local piezoresponse in samarium and manganese co-doped bismuth ferrite ceramics. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152383.	5.5	10
24	Local piezoresponse in BiFeO <sub>3</sub> ∕HoFeO <sub>3</sub> ceramics across morphotropic phase boundary. <i>Materials Research Bulletin</i> , 2020, 121, 110626.	5.2	11
25	Overall pure water splitting using one-dimensional P-doped twinned Zn <sub>0.5</sub> Cd <sub>0.5</sub> S <sub>1-x</sub> nanorods via synergetic combination of long-range ordered homojunctions and interstitial S vacancies with prolonged carrier lifetime. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118309.	20.2	54
26	Insights on the impact of doping levels in oxygen-doped gC <sub>3</sub> N <sub>4</sub> and its effects on photocatalytic activity. <i>Applied Surface Science</i> , 2020, 504, 144427.	6.1	69
27	Interfacial engineering of a zinc blende/wurtzite homojunction photocatalyst through hybridization with a cobalt phosphide co-catalyst for enhanced visible-light-driven photocatalytic H <sub>2</sub> evolution. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1822-1827.	4.9	14
28	An insight into perovskite-based photocatalysts for artificial photosynthesis. <i>Sustainable Energy and Fuels</i> , 2020, 4, 973-984.	4.9	41
29	Energy level tuning of CdSe colloidal quantum dots in ternary 0D-2D-2D CdSe QD/B-rGO/O-gC <sub>3</sub> N <sub>4</sub> as photocatalysts for enhanced hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118592.	20.2	45
30	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. <i>Journal of Environmental Management</i> , 2020, 255, 109936.	7.8	50
31	Performance of all-solution-processed, durable 2D MoS <sub>2</sub> flakes∕BaTiO <sub>3</sub> nanoparticles in polyvinylidene fluoride matrix nanogenerator devices using N-methyl-2-pyrrolidone polar solvent. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153160.	5.5	28
32	Atomic-Scale Domain Mediation in Nd-Doped BiFeO <sub>3</sub> Film. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4127-4133.	4.3	0
33	Role of O 2p-Ti 3d orbital hybridization in dielectric and ferroelectric properties of barium zirconate titanate ceramics. <i>Materials Research Bulletin</i> , 2020, 129, 110905.	5.2	5
34	Topotactic Transformation of Bismuth Oxybromide into Bismuth Tungstate: Bandgap Modulation of Single-Crystalline {001}-Faceted Nanosheets for Enhanced Photocatalytic CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26991-27000.	8.0	53
35	Tuning the electronic band structure of graphitic carbon nitride by breaking intramolecular bonds: A simple and effective approach for enhanced photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2020, 529, 146600.	6.1	9
36	Tunable Plasmon-Induced Charge Transport and Photon Absorption of Bimetallic Au∕Ag Nanoparticles on ZnO Photoanode for Photoelectrochemical Enhancement under Visible Light. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14105-14117.	3.1	23

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37	Zâ€Scheme Photocatalytic Systems for Solar Water Splitting. <i>Advanced Science</i> , 2020, 7, 1903171.	11.2	295
38	Fabrication of Bi<sub>2</sub>WO<sub>6</sub>/Cu/WO<sub>3</sub> Allâ€Solidâ€State Zâ€Scheme Composite Photocatalyst to Improve CO<sub>2</sub> Photoreduction under Visible Light Irradiation. <i>ChemCatChem</i> , 2019, 11, 6431-6438.	3.7	58
39	Silver nanowires as flexible transparent electrode: Role of PVP chain length. <i>Journal of Alloys and Compounds</i> , 2019, 803, 165-171.	5.5	31
40	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. <i>Chemical Engineering Journal</i> , 2019, 372, 1183-1193.	12.7	210
41	Engineering surface oxygen defects on tungsten oxide to boost photocatalytic oxygen evolution from water splitting. <i>Chemical Communications</i> , 2019, 55, 6265-6268.	4.1	29
42	Electric field and temperature induced local polarization switching and piezoresponse in Bi0.88Sm0.12FeO3 ceramics for nanoscale applications. <i>Journal of Alloys and Compounds</i> , 2019, 790, 587-596.	5.5	8
43	Midgap-state-mediated two-step photoexcitation in nitrogen defect-modified g-C<sub>3</sub>N<sub>4</sub> atomic layers for superior photocatalytic CO<sub>2</sub> reduction. <i>Catalysis Science and Technology</i> , 2019, 9, 2335-2343.	4.1	83
44	Ag diffusion inhibition and enhanced flexural strength in low temperature co-fired CaO-Al2O3-B2O3-SiO2 glasses. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1094-1102.	5.5	3
45	Energy Band Gap Modulation in Nd-Doped BiFeO<sub>3</sub>/SrRuO<sub>3</sub> Heteroepitaxy for Visible Light Photoelectrochemical Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1655-1664.	8.0	25
46	Tailoring the properties of oxygenated graphene with different oxidation degrees for noble-metal-free photocatalytic hydrogen evolution. <i>Catalysis Today</i> , 2018, 315, 93-102.	4.4	16
47	Tunable Spectrum Selectivity for Multiphoton Absorption with Enhanced Visible Light Trapping in ZnO Nanorods. <i>Small</i> , 2018, 14, e1704053.	10.0	16
48	A novel repeated self-healing epoxy composite with alginate multicore microcapsules. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8470-8478.	10.3	85
49	The giant strain response mechanism in textured Mn-modified 0.925(Bi0.5Na0.5)TiO3-0.075BaTiO3 relaxor ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2018, 737, 705-717.	5.5	19
50	Engineering nanoscale p-n junction <i>via</i> the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3181-3194.	10.3	143
51	Microâ€nano domain structure and orbital hybridization in rareâ€earth-doped BiFeO<sub>3</sub> across morphotropic phase boundary. <i>Journal of the American Ceramic Society</i> , 2018, 101, 883-896.	3.8	28
52	Synthesis of ZnO nanoflakes by 1064 nm Nd:YAG pulsed laser deposition in a horizontal tube furnace. , 2018, , .		0
53	A study of water permeation using glycerol as the draw solution with thin film composite membranes in forward osmosis and pressure retarded osmosis configurations. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
54	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4558-4569.	8.0	128

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55	Harnessing Vis-NIR broad spectrum for photocatalytic CO <sub>2</sub> reduction over carbon quantum dots-decorated ultrathin Bi <sub>2</sub> WO <sub>6</sub> nanosheets. Nano Research, 2017, 10, 1720-1731.	10.4	135
56	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. RSC Advances, 2017, 7, 15644-15693.	3.6	263
57	Unravelling charge carrier dynamics in protonated g-C <sub>3</sub> N <sub>4</sub> interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO <sub>2</sub> reduction: A combined experimental and first-principles DFT study. Nano Research, 2017, 10, 1673-1696.	10.4	376
58	Electric field induced nanoscale polarization switching and piezoresponse in Sm and Mn co-doped BiFeO <sub>3</sub> multiferroic ceramics by using piezoresponse force microscopy. Acta Materialia, 2017, 132, 174-181.	7.9	48
59	Self-Assembled Heteroepitaxial AuNPs/SrTiO <sub>3</sub> : Influence of AuNPs Size on SrTiO <sub>3</sub> Band Gap Tuning for Visible Light-Driven Photocatalyst. Journal of Physical Chemistry C, 2017, 121, 13487-13495.	3.1	20
60	Effects of Fe 3d-O 2p and Bi 6sp-O 2p orbital hybridizations in Nd doped BiFeO <sub>3</sub> ceramics. Journal of Alloys and Compounds, 2017, 710, 670-679.	5.5	34
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.	7.8	25
62	Performance improvement of dye-sensitized solar cell by introducing Sm <sup>3+</sup> /Y <sup>3+</sup> co-doped TiO <sub>2</sub> film as an efficient blocking layer. Thin Solid Films, 2017, 631, 141-146.	1.8	10
63	Photocatalytic degradation of industrial pulp and paper mill effluent using synthesized magnetic Fe <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> : Treatment efficiency and characterizations of reused photocatalyst. Journal of Environmental Management, 2017, 187, 298-310.	7.8	109
64	Effect of indirect irradiation on surface morphology of Au film by nanosecond laser. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	3
65	Photocatalytic reduction of CO <sub>2</sub> with H <sub>2</sub> O over graphene oxide-supported oxygen-rich TiO <sub>2</sub> hybrid photocatalyst under visible light irradiation: Process and kinetic studies. Chemical Engineering Journal, 2017, 308, 248-255.	12.7	141
66	Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> )-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. Chemical Reviews, 2016, 116, 7159-7329.	47.7	5,505
67	Simultaneous growth of monolayer graphene on Ni-Cu bimetallic catalyst by atmospheric pressure CVD process. RSC Advances, 2016, 6, 41447-41452.	3.6	2
68	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. Applied Materials Today, 2016, 4, 9-16.	4.3	110
69	Oxygen-deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO <sub>2</sub> Reduction into Renewable Carbon-Neutral Fuels. ChemCatChem, 2016, 8, 3074-3081.	3.7	120
70	Tunable photoelectrochemical performance of Au/BiFeO <sub>3</sub> heterostructure. Nanoscale, 2016, 8, 15795-15801.	5.6	76
71	Sol-hydrothermal synthesis of TiO <sub>2</sub> :Sm <sup>3+</sup> nanoparticles and their enhanced photovoltaic properties. Journal of Alloys and Compounds, 2016, 686, 803-809.	5.5	15
72	Oxygen vacancy induced Bi <sub>2</sub> WO <sub>6</sub> for the realization of photocatalytic CO <sub>2</sub> reduction over the full solar spectrum: from the UV to the NIR region. Chemical Communications, 2016, 52, 14242-14245.	4.1	248

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73	Electrosprayed Multi-Core Alginate Microcapsules as Novel Self-Healing Containers. Scientific Reports, 2016, 6, 34674.	3.3	35
74	Influence of the processing methods on the properties of poly(lactic acid)/halloysite nanocomposites. Polymer Composites, 2016, 37, 861-869.	4.6	37
75	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.	4.1	50
76	Heterostructured AgX/g-C <sub>3</sub> N <sub>4</sub> (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.	20.2	277
77	Spontaneous orientation-tuning driven by the strain variation in self-assembled ZnO-SrRuO <sub>3</sub> heteroepitaxy. Applied Physics Letters, 2015, 107, .	3.3	4
78	Enhanced Evaporation Strength through Fast Water Permeation in Graphene-Oxide Deposition. Scientific Reports, 2015, 5, 11896.	3.3	36
79	Heteroepitaxial approach to explore charge dynamics across Au/BiVO <sub>4</sub> interface for photoactivity enhancement. Nano Energy, 2015, 15, 625-633.	16.0	71
80	Preparation of self-supported crystalline merlinoite-type zeolite W membranes through vacuum filtration and crystallization for CO <sub>2</sub> /CH <sub>4</sub> separations. New Journal of Chemistry, 2015, 39, 4135-4140.	2.8	9
81	Surface charge modification via protonation of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) for electrostatic self-assembly construction of 2D/2D reduced graphene oxide (rGO)/g-C <sub>3</sub> N <sub>4</sub> nanostructures toward enhanced photocatalytic reduction of carbon dioxide to methane. Nano Energy, 2015, 13, 757-770.	16.0	718
82	Heteroatom doped graphene in photocatalysis: A review. Applied Surface Science, 2015, 358, 2-14.	6.1	298
83	Noble metal modified reduced graphene oxide/TiO <sub>2</sub> ternary nanostructures for efficient visible-light-driven photoreduction of carbon dioxide into methane. Applied Catalysis B: Environmental, 2015, 166-167, 251-259.	20.2	196
84	Graphene oxide as a structure-directing agent for the two-dimensional interface engineering of sandwich-like graphene@g-C <sub>3</sub> N <sub>4</sub> hybrid nanostructures with enhanced visible-light photoreduction of CO <sub>2</sub> to methane. Chemical Communications, 2015, 51, 858-861.	4.1	393
85	Heterojunction engineering of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) via Pt loading with improved daylight-induced photocatalytic reduction of carbon dioxide to methane. Dalton Transactions, 2015, 44, 1249-1257.	3.3	307
86	Synergistic effect of graphene as a co-catalyst for enhanced daylight-induced photocatalytic activity of Zn <sub>0.5</sub> Cd <sub>0.5</sub> S synthesized via an improved one-pot co-precipitation-hydrothermal strategy. RSC Advances, 2014, 4, 59676-59685.	3.6	61
87	Dehydration of glycerin solution using pervaporation: HybSi and polydimethylsiloxane membranes. Journal of Membrane Science, 2014, 450, 440-446.	8.2	16
88	Phosphorus removal by NF90 membrane: Optimisation using central composite design. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1260-1269.	5.3	17
89	An overview: synthesis of thin films/membranes of metal organic frameworks and its gas separation performances. RSC Advances, 2014, 4, 54322-54334.	3.6	65
90	Continuous polycrystalline ZIF-8 membrane supported on CO <sub>2</sub> -selective mixed matrix supports for CO <sub>2</sub> /CH <sub>4</sub> separation. RSC Advances, 2014, 4, 52461-52466.	3.6	14



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91	Enhanced Daylight-Induced Photocatalytic Activity of Solvent Exfoliated Graphene (SEG)/ZnO Hybrid Nanocomposites toward Degradation of Reactive Black 5. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 17333-17344.	3.7	79
92	Visible-light-driven MWCNT@TiO <sub>2</sub> core-shell nanocomposites and the roles of MWCNTs on the surface chemistry, optical properties and reactivity in CO <sub>2</sub> photoreduction. <i>RSC Advances</i> , 2014, 4, 24007-24013.	3.6	43
93	Modification of MWCNT@TiO <sub>2</sub> core-shell nanocomposites with transition metal oxide dopants for photoreduction of carbon dioxide into methane. <i>Applied Surface Science</i> , 2014, 319, 37-43.	6.1	33
94	Tuning Electronic Transport in a Self-Assembled Nanocomposite. <i>ACS Nano</i> , 2014, 8, 6242-6249.	14.6	15
95	Self-assembly of nitrogen-doped TiO <sub>2</sub> with exposed {001} facets on a graphene scaffold as photo-active hybrid nanostructures for reduction of carbon dioxide to methane. <i>Nano Research</i> , 2014, 7, 1528-1547.	10.4	236
96	An enhanced hybrid membrane of ZIF-8 and zeolite T for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>CrystEngComm</i> , 2014, 16, 3072-3075.	2.6	12
97	Performance studies of phosphorus removal using cross-flow nanofiltration. <i>Desalination and Water Treatment</i> , 2014, 52, 5974-5982.	1.0	11
98	Synthesis and performance of microporous inorganic membranes for CO <sub>2</sub> separation: a review. <i>Journal of Porous Materials</i> , 2013, 20, 1457-1475.	2.6	34
99	Parametric Study of Methane Catalytic CVD into Single-walled Carbon Nanotubes Using Spin-coated Iron Nanoparticles. <i>Chemical Vapor Deposition</i> , 2013, 19, 53-60.	1.3	4
100	Reduced graphene oxide-TiO <sub>2</sub> nanocomposite as a promising visible-light-active photocatalyst for the conversion of carbon dioxide. <i>Nanoscale Research Letters</i> , 2013, 8, 465.	5.7	323
101	Effects of Growth Parameters on the Morphology of Aligned Carbon Nanotubes Synthesized by Floating Catalyst and the Growth Model. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 765-777.	2.1	9
102	Identification of the Effect of Cobalt Contents on Effective Synthesis of Carbon Nanotubes from Methane Decomposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 75-87.	2.1	7
103	Catalytic Decomposition of Methane to Carbon Nanotubes and Hydrogen: The Effect of Metal Loading on the Activity of CoO-MoO/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 158-170.	2.1	13
104	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. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	11
105	Direct growth of carbon nanotubes on Ni/TiO <sub>2</sub> as next generation catalysts for photoreduction of CO <sub>2</sub> to methane by water under visible light irradiation. <i>RSC Advances</i> , 2013, 3, 4505.	3.6	157
106	Amine-functionalization of multi-walled carbon nanotubes for adsorption of carbon dioxide. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 262-270.	1.5	5
107	PRODUCTION OF CARBON NANOTUBES FROM CHEMICAL VAPOR DEPOSITION OF METHANE IN A CONTINUOUS ROTARY REACTOR SYSTEM. <i>Chemical Engineering Communications</i> , 2012, 199, 600-607.	2.6	15
108	Synthesis and Applications of Graphene-Based TiO <sub>2</sub> Photocatalysts. <i>ChemSusChem</i> , 2012, 5, 1868-1882.	6.8	226

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109	Optimisation of reaction conditions for the synthesis of single-walled carbon nanotubes using response surface methodology. Canadian Journal of Chemical Engineering, 2012, 90, 489-505.	1.7	18
110	Stress and electric field induced phase transformation phenomena in [0 1 1]-poled PZN-PT single crystals of [1 0 0]-length cut. Sensors and Actuators A: Physical, 2011, 168, 112-116.	4.1	8
111	Influence of a Fe/activated carbon catalyst and reaction parameters on methane decomposition during the synthesis of carbon nanotubes. Chemical Papers, 2010, 64, .	2.2	5
112	Optimization of Carbon Nanotubes Synthesis via Methane Decomposition over Alumina-Based Catalyst. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 273-284.	2.1	16
113	Nanotwin domains in high-strain ferroelectric 89.5%Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -10.5%PbTiO <sub>3</sub> single crystal. Journal of Applied Physics, 2010, 108, 106102.	2.5	3
114	Transformation stress induced metastable tetragonal phase in (93-92)%Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -(7-8)%PbTiO <sub>3</sub> single crystals. Journal of Applied Physics, 2010, 108, 044105.	2.5	8
115	Tetragonal micro/nanotwins in 0.91Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.09PbTiO <sub>3</sub> revealed by reciprocal space mapping. Applied Physics Letters, 2009, 94, .	3.3	19
116	Rhombohedral and tetragonal nanotwin domains and thermally induced phase transformations in PZN-8%PT single crystals. Journal of Physics Condensed Matter, 2008, 20, 445218.	1.8	2
117	Structural phase transformations and nanotwin domains in 0.93Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.07PbTiO <sub>3</sub> . Journal of Physics Condensed Matter, 2008, 20, 395229.	1.8	5
118	Phase transformations in poled PZN-4.5%PT single crystal revealed by combined property measurements and high-resolution diffraction technique. Journal of Applied Physics, 2008, 104, 054102.	2.5	14
119	Nanotwins and phases in high-strain Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> crystal. Journal of Applied Physics, 2008, 103, .	2.5	18
120	Phase transformation in unpoled bulk Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -8%PbTiO <sub>3</sub> single crystals revealed by the fracturing technique. Journal of Applied Physics, 2008, 103, .	2.5	9
121	Rhombohedral-to-tetragonal phase transformation and thermal depolarization in relaxor-based ferroelectric single crystal. Applied Physics Letters, 2008, 93, 082903.	3.3	10
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