

Chunxu Pan

List of Publications by Year in descending order

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220
papers

9,928
citations

41258

49
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42291

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221
all docs

221
docs citations

221
times ranked

14431
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly porous graphitic biomass carbon as advanced electrode materials for supercapacitors. <i>Green Chemistry</i> , 2017, 19, 4132-4140.	4.6	861
2	Raman Spectroscopy: A New Approach to Measure the Percentage of Anatase TiO ₂ Exposed (001) Facets. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7515-7519.	1.5	672
3	Characterization of Oxygen Vacancy Associates within Hydrogenated TiO ₂ : A Positron Annihilation Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22619-22624.	1.5	487
4	Broadband Photodetectors Based on Graphene/Bi ₂ Te ₃ Heterostructure. <i>ACS Nano</i> , 2015, 9, 1886-1894.	7.3	338
5	TiO ₂ /graphene composite from thermal reaction of graphene oxide and its photocatalytic activity in visible light. <i>Journal of Materials Science</i> , 2011, 46, 2622-2626.	1.7	333
6	Influence of graphene microstructures on electrochemical performance for supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 379-385.	1.8	329
7	Polypyrrole-Decorated Ag-TiO ₂ Nanofibers Exhibiting Enhanced Photocatalytic Activity under Visible-Light Illumination. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6201-6207.	4.0	237
8	Black Phosphorus/Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015, 3, 1447-1453.	3.6	228
9	From Copper Nanocrystalline to CuO Nanoneedle Array: Synthesis, Growth Mechanism, and Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5050-5056.	1.5	173
10	Highly responsive MoS ₂ photodetectors enhanced by graphene quantum dots. <i>Scientific Reports</i> , 2015, 5, 11830.	1.6	155
11	Photoreactivity and Mechanism of g-C ₃ N ₄ and Ag Co-Modified Bi ₂ WO ₆ Microsphere under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3017-3023.	3.2	152
12	Measurements of mechanical properties and number of layers of graphene from nano-indentation. <i>Diamond and Related Materials</i> , 2012, 24, 1-5.	1.8	149
13	Nanotubes from methane flames. <i>Chemical Physics Letters</i> , 2001, 340, 237-241.	1.2	143
14	Mo + C Codoped TiO ₂ Using Thermal Oxidation for Enhancing Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1173-1176.	4.0	143
15	Raman spectra of carbon nanotubes and nanofibers prepared by ethanol flames. <i>Journal of Materials Science</i> , 2004, 39, 1091-1094.	1.7	124
16	Facile Synthesis of Carbon Nanosphere/NiCo ₂ O ₄ Core-shell Sub-microspheres for High Performance Supercapacitor. <i>Scientific Reports</i> , 2015, 5, 12903.	1.6	115
17	Present Perspectives of Advanced Characterization Techniques in TiO ₂ -Based Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23265-23286.	4.0	112
18	Facile synthesis of hybrid CNTs/NiCo ₂ S ₄ composite for high performance supercapacitors. <i>Scientific Reports</i> , 2016, 6, 29788.	1.6	111

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19	Nitrogen Self-Doped Porous Carbon for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 1585-1592.	2.5	109
20	Preparation and Enhanced Photocatalytic Activity of TiO ₂ Nanocrystals with Internal Pores. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1608-1615.	4.0	101
21	Preparation of porous micro-nano-structure NiO/ZnO heterojunction and its photocatalytic property. <i>RSC Advances</i> , 2014, 4, 3090-3095.	1.7	97
22	Biomass-derived porous carbon materials: synthesis, designing, and applications for supercapacitors. <i>Green Chemistry</i> , 2022, 24, 3864-3894.	4.6	97
23	Photocatalytic and degradation mechanisms of anatase TiO ₂ : a HRTEM study. <i>Catalysis Science and Technology</i> , 2011, 1, 273.	2.1	89
24	Highly Sensitive, Durable, and Multifunctional Sensor Inspired by a Spider. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19955-19962.	4.0	89
25	Preparation of 3D reticulated ZnO/CNF/NiO heteroarchitecture for high-performance photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 217-223.	10.8	84
26	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3612-3618.	1.5	83
27	High quality graphene sheets from graphene oxide by hot-pressing. <i>Carbon</i> , 2013, 54, 143-148.	5.4	82
28	MXene/N-Doped Carbon Foam with Three-Dimensional Hollow Neuron-like Architecture for Freestanding, Highly Compressible All Solid-State Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44777-44788.	4.0	82
29	Synthesis and growth mechanism of carbon nanotubes and nanofibers from ethanol flames. <i>Micron</i> , 2004, 35, 461-468.	1.1	77
30	Synthesis of nitrogen doped graphene from graphene oxide within an ammonia flame for high performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 55394-55399.	1.7	77
31	First-Principles Study of Formaldehyde Adsorption on TiO ₂ Rutile (110) and Anatase (001) Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8044-8053.	1.5	76
32	Electrospun nanofibers of p-type BiFeO ₃ /n-type TiO ₂ hetero-junctions with enhanced visible-light photocatalytic activity. <i>RSC Advances</i> , 2014, 4, 31941.	1.7	75
33	Conductive enhancement of copper/graphene composites based on high-quality graphene. <i>RSC Advances</i> , 2015, 5, 80428-80433.	1.7	74
34	Single-Atom Tungsten-Doped CoP Nanoarrays as a High-Efficiency pH-Universal Catalyst for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14825-14832.	3.2	73
35	Green mass synthesis of graphene oxide and its MnO ₂ composite for high performance supercapacitor. <i>Electrochimica Acta</i> , 2019, 312, 11-21.	2.6	72
36	Engineering Nanostructured Bi ₂ WO ₆ TiO ₂ Toward Effective Utilization of Natural Light in Photocatalysis. <i>Journal of the American Ceramic Society</i> , 2011, 94, 4157-4161.	1.9	68

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37	Quick and Facile Preparation of Visible light-Driven TiO ₂ Photocatalyst with High Absorption and Photocatalytic Activity. <i>Scientific Reports</i> , 2014, 4, 7045.	1.6	63
38	Rational Construction of a WS ₂ /CoS ₂ Heterostructure Electrocatalyst for Efficient Hydrogen Evolution at All pH Values. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4474-4480.	3.2	63
39	Enhanced visible light photocatalytic properties of Fe-doped TiO ₂ nanorod clusters and monodispersed nanoparticles. <i>Applied Surface Science</i> , 2011, 257, 8121-8126.	3.1	61
40	Surface doping of La ions into ZnO nanocrystals to lower the optimal working temperature for HCHO sensing properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27437-27445.	1.3	61
41	Synthesis of flower-like twin crystal ternary Ni/NiS/Zn _{0.2} Cd _{0.8} S catalyst for highly efficient hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 406, 126878.	6.6	57
42	Electric field induced growth of well aligned carbon nanotubes from ethanol flames. <i>Nanotechnology</i> , 2006, 17, 1016-1021.	1.3	56
43	Field emission from carbon nanotube bundle arrays grown on self-aligned ZnO nanorods. <i>Nanotechnology</i> , 2007, 18, 155702.	1.3	56
44	Preparation of Sandwich-like NiCo ₂ O ₄ /rGO/NiO Heterostructure on Nickel Foam for High-Performance Supercapacitor Electrodes. <i>Nano-Micro Letters</i> , 2017, 9, 16.	14.4	56
45	Preparation of three-dimensional graphene foam for high performance supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 177-181.	1.8	56
46	Formaldehyde on TiO ₂ anatase (1 0 1): A DFT study. <i>Computational Materials Science</i> , 2012, 51, 389-395.	1.4	55
47	Synthesis and photocatalytic activity of polyaniline@TiO ₂ composites with bionic nanopapilla structure. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3157-3165.	0.8	53
48	Low temperature thermal oxidation synthesis of ZnO nanoneedles and the growth mechanism. <i>Materials Chemistry and Physics</i> , 2009, 115, 74-79.	2.0	52
49	Preparation of graphene and TiO ₂ layer by layer composite with highly photocatalytic efficiency. <i>Progress in Natural Science: Materials International</i> , 2011, 21, 467-471.	1.8	52
50	Hierarchical porous @skin/skeleton-like MXene/biomass derived carbon fibers heterostructure for self-supporting, flexible all solid-state supercapacitors. <i>Journal of Hazardous Materials</i> , 2021, 410, 124565.	6.5	51
51	Functionalization of multi-walled carbon nanotubes grafted with self-generated functional groups and their polyamide 6 composites. <i>Carbon</i> , 2010, 48, 721-729.	5.4	49
52	Interaction of hydrogen with defects in ZnO nanoparticles @ studied by positron annihilation, Raman and photoluminescence spectroscopy. <i>CrystEngComm</i> , 2014, 16, 1207.	1.3	49
53	Interface Enhancement of Glass Fiber Reinforced Vinyl Ester Composites with Flame-Synthesized Carbon Nanotubes and Its Enhancing Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 534-538.	4.0	48
54	Large-scale synthesis of single-crystalline rutile TiO ₂ nanorods via a one-step solution route. <i>Journal of Crystal Growth</i> , 2007, 306, 117-122.	0.7	47

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55	Tuning the Electromagnetic Synergistic Effects for Enhanced Microwave Absorption via Magnetic Nickel Core Encapsulated in Hydrogenated Anatase TiO ₂ Shell. ACS Sustainable Chemistry and Engineering, 2018, 6, 12046-12054.	3.2	47
56	Direct synthesis of high concentration N-doped coiled carbon nanofibers from amine flames and its electrochemical properties. Journal of Power Sources, 2011, 196, 7868-7873.	4.0	45
57	Preparation of high-quality graphene via electrochemical exfoliation & spark plasma sintering and its applications. Applied Surface Science, 2017, 397, 213-219.	3.1	41
58	Preparation of Cu- graphene coating via electroless plating for high mechanical property and corrosive resistance. Journal of Alloys and Compounds, 2019, 777, 877-885.	2.8	41
59	Preparation and characterization of ¹³ C-MnO ₂ /CNTs nanocomposite. Materials Letters, 2007, 61, 934-936.	1.3	40
60	High Concentration Substitutional N-Doped TiO ₂ Film: Preparation, Characterization, and Photocatalytic Property. Journal of the American Ceramic Society, 2011, 94, 4078-4083.	1.9	40
61	Facile synthesis of PANI-modified CoFe ₂ O ₄ @TiO ₂ hierarchical flower-like nanoarchitectures with high photocatalytic activity. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	40
62	Construction of Direct Z-Scheme Heterojunction NiFe-Layered Double Hydroxide (LDH)/Zn _{0.5} Cd _{0.5} S for Photocatalytic H ₂ Evolution. ACS Applied Materials & Interfaces, 2021, 13, 39331-39340.	4.0	40
63	Synthesis of carbon nanotubes on pulse plated Ni nanocrystalline substrate in ethanol flames. Carbon, 2005, 43, 2264-2271.	5.4	38
64	Enhanced Electrochemical Capacitance of Nitrogen-Doped Carbon Nanotubes Synthesized from Amine Flames. Soft Nanoscience Letters, 2011, 01, 16-23.	0.8	38
65	Lithium Insertion in Channel-Structured ¹² -AgVO ₃ : In Situ Raman Study and Computer Simulation. Chemistry of Materials, 2007, 19, 5965-5972.	3.2	37
66	Enhanced adsorption and visible-light-induced photocatalytic activity of hydroxyapatite modified Ag@TiO ₂ powders. Applied Surface Science, 2010, 256, 6390-6394.	3.1	37
67	Micro-arc oxidation of TC4 substrates to fabricate TiO ₂ /YAG:Ce ³⁺ compound films with enhanced photocatalytic activity. Journal of Alloys and Compounds, 2011, 509, L137-L141.	2.8	37
68	Diameter-controlled growth of TiO ₂ nanotube arrays by anodization and its photoelectric property. Journal of Alloys and Compounds, 2010, 492, L33-L35.	2.8	36
69	The production of nitrogen-doped graphene from mixed amine plus ethanol flames. Thin Solid Films, 2012, 520, 6850-6855.	0.8	36
70	Ni-Codoped Anatase TiO ₂ Nanocrystals with Exposed {001} Facets Through Two-Step Hydrothermal Route. Journal of the American Ceramic Society, 2012, 95, 2951-2956.	1.9	35
71	O ₂ Adsorption and Dissociation on A Hydrogenated Anatase (101) Surface. Journal of Physical Chemistry C, 2014, 118, 3471-3482.	1.5	34
72	Synthesis and enhanced microwave absorption properties: a strongly hydrogenated TiO ₂ nanomaterial. Nanotechnology, 2017, 28, 425701.	1.3	34

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73	Edge-riched graphene nanoribbon for high capacity electrode materials. <i>Electrochimica Acta</i> , 2017, 250, 84-90.	2.6	34
74	High Performance Polymer Thermoelectric Composite Achieved by Carbon-Coated Carbon Nanotubes Network. <i>ACS Applied Energy Materials</i> , 2019, 2, 2427-2434.	2.5	34
75	First principles study of the adsorption of a NO molecule on N-doped anatase nanoparticles. <i>Applied Surface Science</i> , 2012, 258, 8312-8318.	3.1	33
76	CNTs/TiO ₂ composites and its electrochemical properties after UV light irradiation. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 164-169.	1.8	32
77	A novel route to ZnO/TiO ₂ heterojunction composite fibers. <i>Journal of Materials Research</i> , 2013, 28, 507-512.	1.2	32
78	Mechanical property enhancement of PVDF/graphene composite based on a high-quality graphene. <i>Journal of Materials Science</i> , 2014, 49, 8311-8316.	1.7	32
79	Bioinspired Single-Walled Carbon Nanotubes as a Spider Silk Structure for Ultrahigh Mechanical Property. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31256-31263.	4.0	32
80	Preparation of Au nanoparticle-decorated ZnO/NiO heterostructure via nonsolvent method for high-performance photocatalysis. <i>Journal of Materials Science</i> , 2017, 52, 1285-1295.	1.7	32
81	Welding of Ti-6Al-4V alloy using dynamically controlled plasma arc welding process. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 1506-1512.	1.7	31
82	Preparation of Cu-Graphene Composite Thin Foils via DC Electro-Deposition and Its Optimal Conditions for Highest Properties. <i>Journal of the Electrochemical Society</i> , 2017, 164, D652-D659.	1.3	31
83	A Wrinkled Ag/CNTs-PDMS Composite Film for a High-Performance Flexible Sensor and Its Applications in Human-Body Single Monitoring. <i>Nanomaterials</i> , 2019, 9, 850.	1.9	31
84	Mn ₃ O ₄ embedded 3D multi-heteroatom codoped carbon sheets/carbon foams composites for high-performance flexible supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156666.	2.8	31
85	Synergistic effect of Gr and CNTs on preparing ultrathin Cu-(CNTs+Gr) composite foil via electrodeposition. <i>Composites Part B: Engineering</i> , 2020, 187, 107841.	5.9	31
86	Near-ultraviolet light-emitting diodes realized from n-ZnO nanorod/p-GaN direct-bonding heterostructures. <i>Journal of Luminescence</i> , 2013, 137, 116-120.	1.5	30
87	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. <i>Nanoscale</i> , 2019, 11, 8020-8026.	2.8	30
88	Microstructural characteristics in plasma sprayed functionally graded ZrO ₂ /NiCrAl coatings. <i>Surface and Coatings Technology</i> , 2003, 162, 194-201.	2.2	29
89	Electric-field-induced microstructural transformation of carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 063124.	1.5	29
90	Synthesis of carbon-modified TiO ₂ nanotube arrays for enhancing the photocatalytic activity under the visible light. <i>Journal of Alloys and Compounds</i> , 2010, 501, L8-L11.	2.8	29

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91	in situ preparation of a TiO ₂ /Eu ₂ O ₃ composite film upon Ti alloy substrate by micro-arc oxidation and its photo-catalytic property. Journal of Alloys and Compounds, 2012, 538, 16-20.	2.8	29
92	Synthesis of carbon nanotubes from ethanol flame. Journal of Materials Science Letters, 2002, 21, 1207-1209.	0.5	27
93	Well-aligned carbon nanotubes from ethanol flame. Journal of Materials Science Letters, 2002, 21, 1927-1929.	0.5	27
94	Influence of Graphene Oxide Content on the Zn-Gr Composite Layer Prepared by Pulse Reverse Electro-plating. Journal of the Electrochemical Society, 2018, 165, D501-D510.	1.3	27
95	A novel strategy to enhance the multiple interface effect using amorphous carbon packaged hydrogenated TiO ₂ for stable and effective microwave absorption. Journal of Materials Chemistry C, 2019, 7, 6152-6160.	2.7	27
96	One-Step Carbonization Activation of Garlic Seeds for Honeycomb-like Hierarchical Porous Carbon and Its High Supercapacitor Properties. ACS Omega, 2020, 5, 29913-29921.	1.6	26
97	Ultra-stretchable, super-hydrophobic and high-conductive composite for wearable strain sensors with high sensitivity. Journal of Colloid and Interface Science, 2022, 617, 372-382.	5.0	26
98	Fabrication and characterization of electrospun TiO ₂ /CuS micro-nano-scaled composite fibers. Progress in Natural Science: Materials International, 2012, 22, 59-63.	1.8	25
99	Diamond synthesis from carbon nanofibers at low temperature and low pressure. Scientific Reports, 2015, 5, 13879.	1.6	25
100	A novel hollow flower-like 0D/3D Zn _{0.5} Cd _{0.5} S/NiCoZn-LDH photocatalyst with n-n heterojunction for high hydrogen production. Applied Surface Science, 2021, 564, 150379.	3.1	25
101	Improved and orange emission from an n-ZnO/p-Si heterojunction light emitting device with NiO as the intermediate layer. Applied Physics Letters, 2012, 101, .	1.5	24
102	Facile preparation of NiO nanoparticles anchored on N/P-codoped 3D carbon nanofibers network for high-performance asymmetric supercapacitors. Journal of Alloys and Compounds, 2021, 888, 161488.	2.8	24
103	A Single-Step Process for Preparing Supercapacitor Electrodes from Carbon Nanotubes. Soft Nanoscience Letters, 2011, 01, 11-15.	0.8	24
104	Morphologies of Al ₄ Sr Intermetallic Phase and Its Modification Property upon A356 Alloys. Journal of Materials Science and Technology, 2012, 28, 524-530.	5.6	23
105	Preparation of ZnO/graphene heterojunction via high temperature and its photocatalytic property. Journal of Materials Science, 2014, 49, 1854-1860.	1.7	23
106	Preparation of a ZnO/TiO ₂ vertical-nanoneedle-on-film heterojunction and its photocatalytic properties. RSC Advances, 2014, 4, 18186.	1.7	23
107	A high energy output nanogenerator based on reduced graphene oxide. Nanoscale, 2015, 7, 18147-18151.	2.8	23
108	Direct determination of graphene amount in electrochemical deposited Cu-based composite foil and its enhanced mechanical property. RSC Advances, 2017, 7, 1735-1742.	1.7	23

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109	Synthesis of one-dimensional ZnO nanoneedles using thermal oxidation process in the air and its application as filed emitters. <i>Materials Letters</i> , 2008, 62, 2783-2786.	1.3	22
110	Coupled model analysis of the structure and nano-mechanical properties of dragonfly wings. <i>IET Nanobiotechnology</i> , 2010, 4, 10.	1.9	22
111	Effect of electric field on CuO nanoneedle growth during thermal oxidation and its growth mechanism. <i>Journal of Applied Physics</i> , 2010, 108, 024308.	1.1	22
112	Strong magnetic field-assisted growth of carbon nanofibers and its microstructural transformation mechanism. <i>Scientific Reports</i> , 2015, 5, 9062.	1.6	22
113	Hydrothermal synthesis of the novel rutile-mixed anatase TiO ₂ nanosheets with dominant {001} facets for high photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 84035-84041.	1.7	22
114	Construction of hierarchical TiO ₂ nanorod array/graphene/ZnO nanocomposites for high-performance photocatalysis. <i>Journal of Materials Science</i> , 2018, 53, 15376-15389.	1.7	22
115	The potential role of borophene as a radiosensitizer in boron neutron capture therapy (BNCT) and particle therapy (PT). <i>Biomaterials Science</i> , 2020, 8, 2778-2785.	2.6	22
116	Effect of surface microstructure of TiO ₂ film from micro-arc oxidation on its photocatalytic activity: a HRTEM study. <i>Nanoscale</i> , 2011, 3, 3573.	2.8	21
117	One-step construction of 3D N/P-codoped hierarchically porous carbon framework in-situ armored Mn ₃ O ₄ nanoparticles for high-performance flexible supercapacitors. <i>Electrochimica Acta</i> , 2020, 333, 135496.	2.6	21
118	Recoverable Photoluminescence of Flame-Synthesized Multiwalled Carbon Nanotubes and Its Intensity Enhancement at 240 K. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10347-10352.	1.5	20
119	Spark plasma sintering-fabricated one-dimensional nanoscale "crystalline-amorphous" carbon heterojunction. <i>Applied Physics Letters</i> , 2008, 92, 113113.	1.5	20
120	Magnetic-field-controlled Alignment of Carbon Nanotubes from Flames and Its Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13470-13474.	1.5	20
121	Synthesis and photocatalytic activity of hydroxyapatite modified nitrogen-doped TiO ₂ . <i>Materials Chemistry and Physics</i> , 2011, 129, 654-659.	2.0	20
122	Simulation for growth of multi-walled carbon nanotubes in electric field. <i>Computational Materials Science</i> , 2007, 39, 616-626.	1.4	19
123	Unusual electroluminescence from n-ZnO@i-MgO core-shell nanowire color-tunable light-emitting diode at reverse bias. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9302-9308.	1.3	18
124	Effective photocatalytic properties of N doped Titanium dioxide nanotube arrays prepared by anodization. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012, 106, 341-353.	0.8	17
125	Electron backscatter diffraction analysis on the microstructures of electrolytic Cu deposition in the through hole filling process. <i>Thin Solid Films</i> , 2013, 544, 412-418.	0.8	16
126	Strain induced chemical potential difference between monolayer graphene sheets. <i>Nanoscale</i> , 2013, 5, 2616.	2.8	16

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127	Carbon deposited TiO ₂ -based nanosheets with enhanced adsorption ability and visible light photocatalytic activity. <i>Journal of Molecular Catalysis A</i> , 2014, 392, 208-215.	4.8	16
128	One-step synthesis of sandwich-type Cu/graphene/Cu ultrathin foil with enhanced property via electrochemical route. <i>Materials and Design</i> , 2020, 191, 108629.	3.3	16
129	Nitrogen-Doped Carbon Nanotubes from Amine Flames. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1060-1067.	0.9	15
130	A rational design for the separation of metallic and semiconducting single-walled carbon nanotubes using a magnetic field. <i>Nanoscale</i> , 2016, 8, 13017-13024.	2.8	15
131	Ag/graphene composite based on high-quality graphene with high electrical and mechanical properties. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 384-389.	1.8	15
132	EBSD study of solidification characteristics of austenitic stainless steel weld pool. <i>Materials Science and Technology</i> , 2010, 26, 750-753.	0.8	14
133	Adsorption and diffusion studies of an O adatom on anatase surfaces with first principles calculations. <i>Computational Materials Science</i> , 2012, 63, 58-65.	1.4	14
134	Microstructure of Al ₄ Sr Phase in Al-Sr Master Alloy and its Effect on Modification Properties. <i>Procedia Engineering</i> , 2012, 27, 805-814.	1.2	14
135	Modulated Structure Assisted Growth and Properties of Fe ₃ O ₄ Nanoneedle Films Using a Thermal Oxidation Process in the Air. <i>Journal of Physical Chemistry C</i> , 2008, 112, 902-910.	1.5	13
136	Modification performance on 4032 Al alloy by using Al-10Sr master alloys manufactured from different processes. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 87-96.	1.8	13
137	Lattice distortion mechanism study of TiO ₂ nanoparticles during photocatalysis degradation and reactivation. <i>AIP Advances</i> , 2015, 5, .	0.6	13
138	O ₂ adsorption and dissociation on an anatase (101) surface with a subsurface Ti interstitial. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4569-4576.	1.3	13
139	Effect of Hydrogen on O ₂ Adsorption and Dissociation on a TiO ₂ Anatase (001) Surface. <i>ChemPhysChem</i> , 2013, 14, 996-1002.	1.0	12
140	Nitrogen atom diffusion into TiO ₂ anatase bulk via surfaces. <i>Computational Materials Science</i> , 2014, 82, 107-113.	1.4	12
141	Formation of black patina on an ancient Chinese bronze sword of the Warring States Period. <i>Applied Surface Science</i> , 2018, 455, 724-728.	3.1	12
142	Formation of the deformation twinning in austenitic stainless steel weld metal. <i>Journal of Materials Science Letters</i> , 1995, 14, 1798-1800.	0.5	11
143	Graphene-Reinforced Zn-Ni Alloy Composite Coating on Iron Substrates by Pulsed Reverse Electrodeposition and Its High Corrosion Resistance. <i>ACS Omega</i> , 2021, 6, 13728-13741.	1.6	11
144	Synthesis and exchange bias effect of CoFe ₂ O ₄ /CoO composite ceramics. <i>Materials Chemistry and Physics</i> , 2010, 124, 1034-1038.	2.0	10

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145	Measurements of mechanical properties of β -phase in Cu-Sn alloys by using instrumented nanoindentation. <i>Journal of Materials Research</i> , 2012, 27, 192-196.	1.2	10
146	Preparation of Fe - Gr composite layer via DC electro-plating for high performances. <i>Journal of Alloys and Compounds</i> , 2018, 768, 859-865.	2.8	10
147	Graphitization of solid carbon nanofibers at an unexpectedly low temperature. <i>Materials Letters</i> , 2007, 61, 4272-4275.	1.3	9
148	Diameter-controlling growth of solid-cored carbon nanofibers on a pulse plated iron nanocrystalline substrate in flames. <i>Materials Research Bulletin</i> , 2008, 43, 3397-3407.	2.7	9
149	Specific corrosion product on interior surface of a bronze wine vessel with loop-handle and its growth mechanism, Shang Dynasty, China. <i>Materials Characterization</i> , 2012, 68, 88-93.	1.9	9
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