

Chunxu Pan

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215
papers

7,690
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45
h-index

81
g-index

221
ext. papers

8,812
ext. citations

4.3
avg, IF

6.4
L-index

#	Paper	IF	Citations
215	Highly porous graphitic biomass carbon as advanced electrode materials for supercapacitors. <i>Green Chemistry</i> , 2017 , 19, 4132-4140	10	573
214	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	3.8	536
213	Characterization of Oxygen Vacancy Associates within Hydrogenated TiO ₂ : A Positron Annihilation Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22619-22624	3.8	407
212	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	4.3	289
211	Broadband photodetectors based on graphene-Bi ₂ Te ₃ heterostructure. <i>ACS Nano</i> , 2015 , 9, 1886-94	16.7	280
210	Polypyrrole-decorated Ag-TiO ₂ nanofibers exhibiting enhanced photocatalytic activity under visible-light illumination. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6201-7	9.5	209
209	Influence of graphene microstructures on electrochemical performance for supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2015 , 25, 379-385	3.6	203
208	Black Phosphorus Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015 , 3, 1447-1453	8.1	192
207	From Copper Nanocrystalline to CuO Nanoneedle Array: Synthesis, Growth Mechanism, and Properties. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5050-5056	3.8	153
206	Mo + C codoped TiO ₂ using thermal oxidation for enhancing photocatalytic activity. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1173-6	9.5	133
205	Highly responsive MoS ₂ photodetectors enhanced by graphene quantum dots. <i>Scientific Reports</i> , 2015 , 5, 11830	4.9	131
204	Measurements of mechanical properties and number of layers of graphene from nano-indentation. <i>Diamond and Related Materials</i> , 2012 , 24, 1-5	3.5	123
203	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	8.3	123
202	Nanotubes from methane flames. <i>Chemical Physics Letters</i> , 2001 , 340, 237-241	2.5	119
201	Raman spectra of carbon nanotubes and nanofibers prepared by ethanol flames. <i>Journal of Materials Science</i> , 2004 , 39, 1091-1094	4.3	108
200	Preparation and enhanced photocatalytic activity of TiO ₂ nanocrystals with internal pores. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1608-15	9.5	95
199	Facile Synthesis of Carbon Nanosphere/NiCo ₂ O ₄ Core-shell Sub-microspheres for High Performance Supercapacitor. <i>Scientific Reports</i> , 2015 , 5, 12903	4.9	95

198	Facile synthesis of hybrid CNTs/NiCo ₂ S ₄ composite for high performance supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 29788	4.9	93
197	Preparation of porous micro/nano-structure NiO/ZnO heterojunction and its photocatalytic property. <i>RSC Advances</i> , 2014 , 4, 3090-3095	3.7	81
196	Present Perspectives of Advanced Characterization Techniques in TiO ₂ -Based Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23265-23286	9.5	78
195	Photocatalytic and degradation mechanisms of anatase TiO ₂ : a HRTEM study. <i>Catalysis Science and Technology</i> , 2011 , 1, 273	5.5	77
194	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3612-3618	3.8	74
193	High quality graphene sheets from graphene oxide by hot-pressing. <i>Carbon</i> , 2013 , 54, 143-148	10.4	72
192	Preparation of 3D reticulated ZnO/CNF/NiO heteroarchitecture for high-performance photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 217-223	21.8	71
191	Synthesis and growth mechanism of carbon nanotubes and nanofibers from ethanol flames. <i>Micron</i> , 2004 , 35, 461-8	2.3	71
190	Synthesis of nitrogen doped graphene from graphene oxide within an ammonia flame for high performance supercapacitors. <i>RSC Advances</i> , 2014 , 4, 55394-55399	3.7	66
189	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	3.8	66
188	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	3.8	64
187	Highly Sensitive, Durable, and Multifunctional Sensor Inspired by a Spider. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19955-19962	9.5	63
186	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	3.7	60
185	Nitrogen Self-Doped Porous Carbon for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1585-1592	6.1	59
184	Quick and facile preparation of visible light-driven TiO ₂ photocatalyst with high absorption and photocatalytic activity. <i>Scientific Reports</i> , 2014 , 4, 7045	4.9	57
183	Enhanced visible light photocatalytic properties of Fe-doped TiO ₂ nanorod clusters and monodispersed nanoparticles. <i>Applied Surface Science</i> , 2011 , 257, 8121-8126	6.7	55
182	Conductive enhancement of copper/graphene composites based on high-quality graphene. <i>RSC Advances</i> , 2015 , 5, 80428-80433	3.7	53
181	Electric field induced growth of well aligned carbon nanotubes from ethanol flames. <i>Nanotechnology</i> , 2006 , 17, 1016-21	3.4	52

180	Green mass synthesis of graphene oxide and its MnO ₂ composite for high performance supercapacitor. <i>Electrochimica Acta</i> , 2019 , 312, 11-21	6.7	51
179	Synthesis and photocatalytic activity of polyaniline/TiO ₂ composites with bionic nanopapilla structure. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3157-3165	2.3	50
178	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, 534-8	9.5	47
177	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	3.6	47
176	Low temperature thermal oxidation synthesis of ZnO nanoneedles and the growth mechanism. <i>Materials Chemistry and Physics</i> , 2009 , 115, 74-79	4.4	47
175	Field emission from carbon nanotube bundle arrays grown on self-aligned ZnO nanorods. <i>Nanotechnology</i> , 2007 , 18, 155702	3.4	47
174	Formaldehyde on TiO ₂ anatase (101): A DFT study. <i>Computational Materials Science</i> , 2012 , 51, 389-395	3.2	46
173	Functionalization of multi-walled carbon nanotubes grafted with self-generated functional groups and their polyamide 6 composites. <i>Carbon</i> , 2010 , 48, 721-729	10.4	46
172	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, 27437-45	3.6	45
171	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	1.6	45
170	Preparation of Sandwich-like NiCoO/rGO/NiO Heterostructure on Nickel Foam for High-Performance Supercapacitor Electrodes. <i>Nano-Micro Letters</i> , 2017 , 9, 16	19.5	44
169	Interaction of hydrogen with defects in ZnO nanoparticles studied by positron annihilation, Raman and photoluminescence spectroscopy. <i>CrystEngComm</i> , 2014 , 16, 1207	3.3	44
168	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	9.5	41
167	Preparation of three-dimensional graphene foam for high performance supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 177-181	3.6	40
166	Direct synthesis of high concentration N-doped coiled carbon nanofibers from amine flames and its electrochemical properties. <i>Journal of Power Sources</i> , 2011 , 196, 7868-7873	8.9	38
165	Facile synthesis of PANI-modified CoFe ₂ O ₄ /TiO ₂ hierarchical flower-like nanoarchitectures with high photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	37
164	Preparation and characterization of MnO ₂ /CNTs nanocomposite. <i>Materials Letters</i> , 2007 , 61, 934-936	3.3	37
163	Synthesis of carbon nanotubes on pulse plated Ni nanocrystalline substrate in ethanol flames. <i>Carbon</i> , 2005 , 43, 2264-2271	10.4	37

162	High Concentration Substitutional N-Doped TiO ₂ Film: Preparation, Characterization, and Photocatalytic Property. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4078-4083	3.8	35
161	Diameter-controlled growth of TiO ₂ nanotube arrays by anodization and its photoelectric property. <i>Journal of Alloys and Compounds</i> , 2010 , 492, L33-L35	5.7	35
160	Enhanced adsorption and visible-light-induced photocatalytic activity of hydroxyapatite modified Ag ⁺ /TiO ₂ powders. <i>Applied Surface Science</i> , 2010 , 256, 6390-6394	6.7	35
159	Tuning the Electromagnetic Synergistic Effects for Enhanced Microwave Absorption via Magnetic Nickel Core Encapsulated in Hydrogenated Anatase TiO ₂ Shell. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12046-12054	8.3	33
158	Preparation of high-quality graphene via electrochemical exfoliation & spark plasma sintering and its applications. <i>Applied Surface Science</i> , 2017 , 397, 213-219	6.7	32
157	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	8.3	32
156	The production of nitrogen-doped graphene from mixed amine plus ethanol flames. <i>Thin Solid Films</i> , 2012 , 520, 6850-6855	2.2	32
155	First principles study of the adsorption of a NO molecule on N-doped anatase nanoparticles. <i>Applied Surface Science</i> , 2012 , 258, 8312-8318	6.7	32
154	Micro-arc oxidation of TC4 substrates to fabricate TiO ₂ /YAG:Ce ³⁺ compound films with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2011 , 509, L137-L141	5.7	32
153	Lithium Insertion in Channel-Structured AgVO ₃ : InSitu Raman Study and Computer Simulation. <i>Chemistry of Materials</i> , 2007 , 19, 5965-5972	9.6	32
152	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	8.3	32
151	Ni/Ni Codoped Anatase TiO ₂ Nanocrystals with Exposed {001} Facets Through Two-Step Hydrothermal Route. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2951-2956	3.8	31
150	Mechanical property enhancement of PVDF/graphene composite based on a high-quality graphene. <i>Journal of Materials Science</i> , 2014 , 49, 8311-8316	4.3	30
149	Near-ultraviolet light-emitting diodes realized from n-ZnO nanorod/p-GaN direct-bonding heterostructures. <i>Journal of Luminescence</i> , 2013 , 137, 116-120	3.8	30
148	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	5.7	29
147	O ₂ Adsorption and Dissociation on A Hydrogenated Anatase (101) Surface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3471-3482	3.8	28
146	Enhanced Electrochemical Capacitance of Nitrogen-Doped Carbon Nanotubes Synthesized from Amine Flames. <i>Soft Nanoscience Letters</i> , 2011 , 01, 16-23	0.3	28
145	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	4.3	27

144	Microstructural characteristics in plasma sprayed functionally graded ZrO ₂ /NiCrAl coatings. <i>Surface and Coatings Technology</i> , 2003 , 162, 194-201	4.4	27
143	Preparation of Cu- graphene coating via electroless plating for high mechanical property and corrosive resistance. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 877-885	5.7	27
142	CNTs/TiO ₂ composites and its electrochemical properties after UV light irradiation. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 164-169	3.6	26
141	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	3.9	26
140	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. <i>Journal of Alloys and Compounds</i> , 2012 , 538, 16-20	5.7	26
139	Electric-field-induced microstructural transformation of carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 063124	3.4	26
138	Edge-riched graphene nanoribbon for high capacity electrode materials. <i>Electrochimica Acta</i> , 2017 , 250, 84-90	6.7	24
137	Synthesis of carbon nanotubes from ethanol flame. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1207-1209		24
136	Well-aligned carbon nanotubes from ethanol flame. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1927-1929		24
135	A novel route to ZnO/TiO ₂ heterojunction composite fibers. <i>Journal of Materials Research</i> , 2013 , 28, 507-512	2.5	23
134	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	3.3	23
133	A Single-Step Process for Preparing Supercapacitor Electrodes from Carbon Nanotubes. <i>Soft Nanoscience Letters</i> , 2011 , 01, 11-15	0.3	23
132	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,	5.4	22
131	Bioinspired Single-Walled Carbon Nanotubes as a Spider Silk Structure for Ultrahigh Mechanical Property. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31256-31263	9.5	22
130	Fabrication and characterization of electrospun TiO ₂ /CuS micro/nano-scaled composite fibers. <i>Progress in Natural Science: Materials International</i> , 2012 , 22, 59-63	3.6	22
129	Improved and orange emission from an n-ZnO/p-Si heterojunction light emitting device with NiO as the intermediate layer. <i>Applied Physics Letters</i> , 2012 , 101, 223504	3.4	22
128	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	3.3	22
127	High Performance Polymer Thermoelectric Composite Achieved by Carbon-Coated Carbon Nanotubes Network. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2427-2434	6.1	21

126	Synthesis and enhanced microwave absorption properties: a strongly hydrogenated TiO nanomaterial. <i>Nanotechnology</i> , 2017 , 28, 425701	3.4	21
125	Preparation of ZnO/graphene heterojunction via high temperature and its photocatalytic property. <i>Journal of Materials Science</i> , 2014 , 49, 1854-1860	4.3	21
124	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. <i>Nanoscale</i> , 2019 , 11, 8020-8026	7.7	20
123	Diamond synthesis from carbon nanofibers at low temperature and low pressure. <i>Scientific Reports</i> , 2015 , 5, 13879	4.9	20
122	Morphologies of Al4Sr Intermetallic Phase and Its Modification Property upon A356 Alloys. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 524-530	9.1	20
121	Effect of electric field on CuO nanoneedle growth during thermal oxidation and its growth mechanism. <i>Journal of Applied Physics</i> , 2010 , 108, 024308	2.5	20
120	A novel strategy to enhance the multiple interface effect using amorphous carbon packaged hydrogenated TiO ₂ for stable and effective microwave absorption. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6152-6160	7.1	19
119	Preparation of a ZnO/TiO ₂ vertical-nanoneedle-on-film heterojunction and its photocatalytic properties. <i>RSC Advances</i> , 2014 , 4, 18186	3.7	19
118	Strong magnetic field-assisted growth of carbon nanofibers and its microstructural transformation mechanism. <i>Scientific Reports</i> , 2015 , 5, 9062	4.9	19
117	Effect of surface microstructure of TiO ₂ film from micro-arc oxidation on its photocatalytic activity: a HRTEM study. <i>Nanoscale</i> , 2011 , 3, 3573-7	7.7	19
116	Coupled model analysis of the structure and nano-mechanical properties of dragonfly wings. <i>IET Nanobiotechnology</i> , 2010 , 4, 10-8	2	19
115	Magnetic-field-controlled Alignment of Carbon Nanotubes from Flames and Its Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13470-13474	3.8	19
114	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	3.8	19
113	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	14.7	19
112	Direct determination of graphene amount in electrochemical deposited Cu-based composite foil and its enhanced mechanical property. <i>RSC Advances</i> , 2017 , 7, 1735-1742	3.7	18
111	A high energy output nanogenerator based on reduced graphene oxide. <i>Nanoscale</i> , 2015 , 7, 18147-51	7.7	18
110	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, 9302-8	3.6	18
109	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	10	17

108	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	3.7	17
107	Construction of hierarchical TiO ₂ nanorod array/graphene/ZnO nanocomposites for high-performance photocatalysis. <i>Journal of Materials Science</i> , 2018 , 53, 15376-15389	4.3	17
106	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	12.8	17
105	Effective photocatalytic properties of N doped Titanium dioxide nanotube arrays prepared by anodization. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012 , 106, 341-353	1.6	16
104	Simulation for growth of multi-walled carbon nanotubes in electric field. <i>Computational Materials Science</i> , 2007 , 39, 616-626	3.2	16
103	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	5.7	16
102	Influence of Graphene Oxide Content on the Zn-Gr Composite Layer Prepared by Pulse Reverse Electro-plating. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D501-D510	3.9	15
101	Strain induced chemical potential difference between monolayer graphene sheets. <i>Nanoscale</i> , 2013 , 5, 2616-9	7.7	15
100	Synthesis and photocatalytic activity of hydroxyapatite modified nitrogen-doped TiO ₂ . <i>Materials Chemistry and Physics</i> , 2011 , 129, 654-659	4.4	15
99	Spark plasma sintering-fabricated one-dimensional nanoscale crystalline-amorphous carbon heterojunction. <i>Applied Physics Letters</i> , 2008 , 92, 113113	3.4	15
98	Adsorption and diffusion studies of an O adatom on TiO ₂ anatase surfaces with first principles calculations. <i>Computational Materials Science</i> , 2012 , 63, 58-65	3.2	14
97	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	6.7	14
96	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	2.2	13
95	Nitrogen-doped carbon nanotubes from amine flames. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1060-7	1.3	13
94	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	3.8	13
93	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		12
92	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		12
91	Effect of hydrogen on O ₂ adsorption and dissociation on a TiO ₂ anatase (001) surface. <i>ChemPhysChem</i> , 2013 , 14, 996-1002	3.2	12

90	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	7.4	12
89	A rational design for the separation of metallic and semiconducting single-walled carbon nanotubes using a magnetic field. <i>Nanoscale</i> , 2016 , 8, 13017-24	7.7	11
88	O ₂ adsorption and dissociation on an anatase (101) surface with a subsurface Ti interstitial. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4569-76	3.6	11
87	Nitrogen atom diffusion into TiO ₂ anatase bulk via surfaces. <i>Computational Materials Science</i> , 2014 , 82, 107-113	3.2	11
86	"One-Step" Carbonization Activation of Garlic Seeds for Honeycomb-like Hierarchical Porous Carbon and Its High Supercapacitor Properties. <i>ACS Omega</i> , 2020 , 5, 29913-29921	3.9	10
85	Lattice distortion mechanism study of TiO ₂ nanoparticles during photocatalysis degradation and reactivation. <i>AIP Advances</i> , 2015 , 5, 057105	1.5	10
84	Modification performance on 4032 Al alloy by using Al ₁₀ OSr master alloys manufactured from different processes. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 87-96	3.6	10
83	EBSD study of solidification characteristics of austenitic stainless steel weld pool. <i>Materials Science and Technology</i> , 2010 , 26, 750-753	1.5	10
82	Formation of the deformation twinning in austenitic stainless steel weld metal. <i>Journal of Materials Science Letters</i> , 1995 , 14, 1798-1800		10
81	Synthesis and exchange bias effect of CoFe ₂ O ₄ /CoO composite ceramics. <i>Materials Chemistry and Physics</i> , 2010 , 124, 1034-1038	4.4	9
80	Facile preparation of NiO nanoparticles anchored on N/P-codoped 3D carbon nanofibers network for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 888, 161488	5.7	9
79	Interface enhancement of glass fiber/vinyl ester composites with carbon nanotubes synthesized from ethanol flames. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 948-55	1.3	8
78	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	5.1	8
77	Graphitization of solid carbon nanofibers at an unexpectedly low temperature. <i>Materials Letters</i> , 2007 , 61, 4272-4275	3.3	8
76	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	8.1	7
75	Preparation of Fe - Gr composite layer via DC electro-plating for high performances. <i>Journal of Alloys and Compounds</i> , 2018 , 768, 859-865	5.7	7
74	Formation of black patina on an ancient Chinese bronze sword of the Warring States Period. <i>Applied Surface Science</i> , 2018 , 455, 724-728	6.7	7
73	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	3.9	7

72	Effect of Mortar-Pestle Grinding on Conductivity of Ferric Chloride Doped Polypyrrole. <i>Key Engineering Materials</i> , 2010 , 428-429, 497-500	0.4	7
71	Measurements of mechanical properties of β phase in Cu ₃ N alloys by using instrumented nanoindentation. <i>Journal of Materials Research</i> , 2012 , 27, 192-196	2.5	7
70	Enhanced Photoactivity of Fe + N Codoped Anatase-Rutile TiO ₂ Nanowire Film under Visible Light Irradiation. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-8	2.1	6
69	Effects of doping Na on the structure and physical properties of La _{2/3} Ca _{1/3} MnO ₃ . <i>Solid State Communications</i> , 2007 , 141, 471-473	1.6	6
68	Novel solid-cored carbon nanofiber grown on steels substrates in ethanol flames. <i>Journal of Materials Science</i> , 2005 , 40, 1293-1295	4.3	6
67	Construction of Direct Z-Scheme Heterojunction NiFe-Layered Double Hydroxide (LDH)/ZnCdS for Photocatalytic H ₂ Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39331-39340	9.5	6
66	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	3.6	5
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