

Wenxiu Que

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325
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340
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9,548
ext. citations

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L-index

#	Paper	IF	Citations
325	Recent progress in layered transition metal carbides and/or nitrides (MXenes) and their composites: synthesis and applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3039-3068	13	460
324	Highly Efficient Flexible Perovskite Solar Cells Using Solution-Derived NiOx Hole Contacts. <i>ACS Nano</i> , 2016 , 10, 3630-6	16.7	370
323	Transparent ceramics: Processing, materials and applications. <i>Progress in Solid State Chemistry</i> , 2013 , 41, 20-54	8	342
322	Molybdenum disulfide nanomaterials: Structures, properties, synthesis and recent progress on hydrogen evolution reaction. <i>Applied Materials Today</i> , 2016 , 3, 23-56	6.6	245
321	A hydrophobic surface enabled salt-blocking 2D Ti3C2 MXene membrane for efficient and stable solar desalination. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16196-16204	13	231
320	Controllable synthesis of brookite/anatase/rutile TiO2 nanocomposites and single-crystalline rutile nanorods array. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7937		163
319	A general salt-resistant hydrophilic/hydrophobic nanoporous double layer design for efficient and stable solar water evaporation distillation. <i>Materials Horizons</i> , 2018 , 5, 1143-1150	14.4	150
318	Flexible Nitrogen-Doped 2D Titanium Carbides (MXene) Films Constructed by an Ex Situ Solvothermal Method with Extraordinary Volumetric Capacitance. <i>Advanced Energy Materials</i> , 2018 , 8, 1802087	21.8	133
317	Influence of annealing atmosphere and temperature on photoluminescence of Tb3+ or Eu3+-activated zinc silicate thin film phosphors via sol-gel method. <i>Chemical Physics Letters</i> , 2002 , 351, 163-170	2.5	119
316	Synthesis and application of iron-based nanomaterials as anodes of lithium-ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9332-9367	13	118
315	Flexible and free-standing 2D titanium carbide film decorated with manganese oxide nanoparticles as a high volumetric capacity electrode for supercapacitor. <i>Journal of Power Sources</i> , 2017 , 359, 332-339	8.9	110
314	High efficiency hysteresis-less inverted planar heterojunction perovskite solar cells with a solution-derived NiOx hole contact layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24495-24503	13	107
313	Photocatalytic degradation of methyl orange over nitrogen-fluorine codoped TiO2 nanobelts prepared by solvothermal synthesis. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6816-26	9.5	100
312	Luminescence of Eu3+ and Tb3+ doped Zn2SiO4 nanometer powder phosphors. <i>Materials Chemistry and Physics</i> , 2001 , 68, 31-35	4.4	93
311	Barium titanate derived from mechanochemically activated powders. <i>Journal of Alloys and Compounds</i> , 2002 , 337, 226-230	5.7	93
310	A facile method to crystallize amorphous anodized TiO2 nanotubes at low temperature. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2800-4	9.5	92
309	Improved capacitance of nitrogen-doped delaminated two-dimensional titanium carbide by urea-assisted synthesis. <i>Electrochimica Acta</i> , 2017 , 225, 416-424	6.7	91

308	Materials development and potential applications of transparent ceramics: A review. <i>Materials Science and Engineering Reports</i> , 2020 , 139, 100518	30.9	89
307	Optical and mechanical properties of TiO ₂ /SiO ₂ /organically modified silane composite films prepared by sol-gel processing. <i>Thin Solid Films</i> , 2000 , 359, 177-183	2.2	87
306	Nickel Oxide as Efficient Hole Transport Materials for Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900001	7.1	85
305	Ag nanoparticle/ZnO nanorods nanocomposites derived by a seed-mediated method and their photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2012 , 524, 13-21	5.7	81
304	Preparation and characterization of sol-gel Al-doped ZnO thin films and ZnO nanowire arrays grown on Al-doped ZnO seed layer by hydrothermal method. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2181-2186	6.4	81
303	Surface nitrogen-modified 2D titanium carbide (MXene) with high energy density for aqueous supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5416-5425	13	80
302	Achieving of Flexible, Free-Standing, Ultracompact Delaminated Titanium Carbide Films for High Volumetric Performance and Heat-Resistant Symmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705487	15.6	79
301	Surface chemical analysis on the carbon-doped mesoporous TiO ₂ photocatalysts after post-thermal treatment: XPS and FTIR characterization. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 924-928	3.9	75
300	Photocatalytic Activity of TiO ₂ Nanoparticles Sensitized by CuInS ₂ Quantum Dots. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9131-9137	3.9	73
299	Synthesis and photocatalytic performance of Ag-loaded Bi ₂ O ₃ microspheres under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9479-9486	5.7	73
298	Optical and microstructural properties of sol-gel derived titania/organically modified silane thin films. <i>Thin Solid Films</i> , 2000 , 358, 16-21	2.2	73
297	Photoluminescence and electroluminescence from copper doped zinc sulphide nanocrystals/polymer composite. <i>Applied Physics Letters</i> , 1998 , 73, 2727-2729	3.4	73
296	Hydroxyapatite/titania nanocomposites derived by combining high-energy ball milling with spark plasma sintering processes. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 3083-3090	6	65
295	Quantum-Dot-Induced Cesium-Rich Surface Imparts Enhanced Stability to Formamidinium Lead Iodide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 1970-1975	20.1	58
294	Enhanced photocatalytic activity of ZnO microspheres via hybridization with CuInSe ₂ and CuInS ₂ nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4087-92	9.5	57
293	Facile synthesis of ZnO/CuInS ₂ nanorod arrays for photocatalytic pollutants degradation. <i>Journal of Hazardous Materials</i> , 2016 , 317, 430-439	12.8	56
292	Membrane assembled from anti-fouling copper-zinc-tin-selenide nanocarambolas for solar-driven interfacial water evaporation. <i>Chemical Engineering Journal</i> , 2019 , 373, 955-962	14.7	54
291	Two-dimensional lead-free iodide-based hybrid double perovskites: crystal growth, thin-film preparation and photocurrent responses. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19662-19667	13	54

290	PbS/polymer nanocomposite with third-order nonlinear optical response in femtosecond regime. <i>Materials Letters</i> , 2001 , 51, 461-469	3.3	51
289	Highly efficient CsPbI ₂ Br ₂ perovskite solar cells with efficiency over 9.8% fabricated using a preheating-assisted spin-coating method. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19008-19016	13	50
288	Nitrogen and Sulfur Co-Doped 2D Titanium Carbides for Enhanced Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1939-A1945	3.9	49
287	Ni foam supported quasi-core-shell structure of ultrathin Ti ₃ C ₂ nanosheets through electrostatic layer-by-layer self-assembly as high rate-performance electrodes of supercapacitors. <i>Journal of Power Sources</i> , 2017 , 369, 78-86	8.9	48
286	ZnO nanorods on ZnO seed layer derived by sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 53, 605-612	2.3	46
285	Single-step fabrication of continuous surface relief micro-optical elements in hybrid sol-gel glass by laser direct writing. <i>Optics Express</i> , 2002 , 10, 443-8	3.3	46
284	Yellow-to-violet upconversion in neodymium oxide nanocrystal/titania/ormosil composite sol-gel thin films derived at low temperature. <i>Journal of Applied Physics</i> , 2001 , 90, 4865-4867	2.5	45
283	A long cycle life asymmetric supercapacitor based on advanced nickel-sulfide/titanium carbide (MXene) nanohybrid and MXene electrodes. <i>Journal of Power Sources</i> , 2020 , 450, 227694	8.9	44
282	Preparation and photocatalytic activity of TiO ₂ nanotube powders derived by a rapid anodization process. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 243-248	5.7	43
281	Low temperature solution processed indium oxide thin films with reliable photoelectrochemical stability for efficient and stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9641-9648	13	42
280	Three dimensional hierarchical network structure of S-NiFe ₂ O ₄ modified few-layer titanium carbides (MXene) flakes on nickel foam as a high efficient electrocatalyst for oxygen evolution. <i>Electrochimica Acta</i> , 2019 , 296, 762-770	6.7	42
279	Ternary system of ZnO nanorods/reduced graphene oxide/CuInS ₂ quantum dots for enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2018 , 734, 196-203	5.7	41
278	Femtosecond Z-scan investigation of nonlinear refraction in surface modified PbS nanoparticles. <i>Optical Materials</i> , 2000 , 14, 321-327	3.3	40
277	Synthesis and characterization of bioinspired hierarchical mesoporous TiO ₂ photocatalysts. <i>Materials Letters</i> , 2013 , 94, 136-139	3.3	39
276	Size- and Morphology-Dependent Auger Recombination in CsPbBr Perovskite Two-Dimensional Nanoplatelets and One-Dimensional Nanorods. <i>Nano Letters</i> , 2019 , 19, 5620-5627	11.5	38
275	Solvothermal derived crystalline NiOx nanoparticles for high performance perovskite solar cells. <i>Journal of Power Sources</i> , 2016 , 329, 398-405	8.9	38
274	Enhanced conversion efficiency in perovskite solar cells by effectively utilizing near infrared light. <i>Nanoscale</i> , 2016 , 8, 14432-7	7.7	38
273	Photocatalytic generation of multiple ROS types using low-temperature crystallized anodic TiO ₂ nanotube arrays. <i>Journal of Hazardous Materials</i> , 2013 , 260, 434-41	12.8	38

272	Thin film TiO ₂ electrodes derived by sol-gel process for photovoltaic applications. <i>Journal of Power Sources</i> , 2006 , 159, 353-356	8.9	38
271	Inorganic CsPbI ₃ -Based Perovskite Solar Cells: Fabrication Technique Modification and Efficiency Improvement. <i>Solar Rrl</i> , 2019 , 3, 1900135	7.1	37
270	Charge transport and recombination in dye-sensitized solar cells based on hybrid films of TiO ₂ particles/TiO ₂ nanotubes. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7808-7813	5.7	37
269	Optimization of field emission properties of carbon nanotubes cathodes by electrophoretic deposition. <i>Materials Letters</i> , 2007 , 61, 1265-1269	3.3	37
268	Effects of composition and structure on spectral properties of Eu ³⁺ -doped yttrium silicate transparent nanocrystalline films by metallorganic decomposition method. <i>Chemical Physics Letters</i> , 2002 , 356, 161-167	2.5	37
267	Bi ₂ O ₃ /Carbon quantum dots heterostructured photocatalysts with enhanced photocatalytic activity. <i>Materials Letters</i> , 2017 , 209, 220-223	3.3	36
266	In ₂ O ₃ /Bi ₂ Sn ₂ O ₇ heterostructured nanoparticles with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2016 , 387, 36-44	6.7	35
265	Activating the single-crystal TiO ₂ nanoparticle film with exposed {001} facets. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6463-6	9.5	35
264	Double-layer electrode based on TiO ₂ nanotubes arrays for enhancing photovoltaic properties in dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12779-83	9.5	35
263	Construction of High-Quality SnO@MoS ₂ Nanohybrids for Promising Photoelectrocatalytic Applications. <i>Inorganic Chemistry</i> , 2017 , 56, 3386-3393	5.1	34
262	TiO ₂ passivation for improved efficiency and stability of ZnO nanorods based perovskite solar cells. <i>RSC Advances</i> , 2016 , 6, 57996-58002	3.7	34
261	High-quality Cu ₂ ZnSnS ₄ and Cu ₂ ZnSnSe ₄ nanocrystals hybrid with ZnO and NaYF ₄ : Yb, Tm as efficient photocatalytic sensitizers. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 402-411	21.8	34
260	Low temperature solution-derived TiO ₂ -SnO ₂ bilayered electron transport layer for high performance perovskite solar cells. <i>Applied Surface Science</i> , 2019 , 464, 700-707	6.7	34
259	Effect of TiO ₂ shell layer prepared by wet-chemical method on the photovoltaic performance of ZnO nanowires arrays-based quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 99, 204-210	6.7	32
258	Strategies to prepare an efficient photoanode for ZnO nanowires-based CdS/SrSe co-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 89, 561-570	6.7	32
257	Three-dimensional photonic band gap structure of a polymer-metal composite. <i>Applied Physics Letters</i> , 2000 , 76, 3337-3339	3.4	32
256	Photocatalytic activity of SnWO ₄ and SnW ₃ O ₉ nanostructures prepared by a surfactant-assisted hydrothermal process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1448-1455	3.1	30
255	Recent Progress of Flexible Perovskite Solar Cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800566	2.5	29

254	Novel bilayer structure ZnO based photoanode for enhancing conversion efficiency in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7421-7426	5.7	29
253	Preparation and characterizations of SiO ₂ /TiO ₂ /Eglycidoxypropyltrimethoxysilane composite materials for optical waveguides. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 171-176	2.6	29
252	Surface scattering and reflecting: the effect on light absorption or photocatalytic activity of TiO ₂ scattering microspheres. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16768-73	3.6	28
251	Fabrication of Bi ₂ Sn ₂ O ₇ -ZnO heterostructures with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 27576-27583	3.7	27
250	Lithium-assisted exfoliation of pristine graphite for few-layer graphene nanosheets. <i>Nano Research</i> , 2015 , 8, 801-807	10	27
249	Enhancing the efficiency of CdS quantum dot-sensitized solar cells via electrolyte engineering. <i>Nano Energy</i> , 2015 , 11, 88-95	17.1	27
248	Ag ₃ TiO ₂ nanocomposites with improved photocatalytic properties prepared by a low temperature process in polyethylene glycol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 410, 153-158	5.1	27
247	Effects of heat treatment scheme on the photocatalytic activity of TiO ₂ nanotube powders derived by a facile electrochemical process. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1054-1059	5.7	27
246	A comparative study of planar and mesoporous perovskite solar cells with printable carbon electrodes. <i>Journal of Power Sources</i> , 2019 , 412, 118-124	8.9	27
245	Solution-induced morphology change of organic-inorganic hybrid perovskite films for high efficiency inverted planar heterojunction solar cells. <i>Electrochimica Acta</i> , 2016 , 191, 750-757	6.7	26
244	Facile Fabrication of Porous Bi ₂ O ₃ Microspheres by Thermal Treatment of Bi ₂ O ₂ CO ₃ Microspheres and its Photocatalysis Properties. <i>Journal of Cluster Science</i> , 2013 , 24, 829-841	3	26
243	Preparation and photocatalytic activities of Sb ₂ S ₃ /TiO ₂ nanotube coaxial heterogeneous structure arrays via an ion exchange adsorption method. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 314-319	5.7	26
242	Hydrothermal synthesis of bamboo-shaped nanosheet KNb ₃ O ₈ with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2015 , 627, 117-122	5.7	26
241	2D hierarchical nickel cobalt sulfides coupled with ultrathin titanium carbide (MXene) nanosheets for hybrid supercapacitors. <i>Journal of Power Sources</i> , 2021 , 482, 228961	8.9	26
240	Electrochemical behavior and photocatalytic performance of nitrogen-doped TiO ₂ nanotubes arrays powders prepared by combining anodization with solvothermal process. <i>Ceramics International</i> , 2013 , 39, 5545-5552	5.1	24
239	Preparation and optical properties of patternable TiO ₂ /ormosils hybrid films for photonics applications. <i>Chemical Physics Letters</i> , 2003 , 369, 354-360	2.5	24
238	The effect of in situ nitrogen doping on the oxygen evolution reaction of MXenes. <i>Nanoscale Advances</i> , 2020 , 2, 1187-1194	5.1	23
237	CuInSe ₂ nanocrystals/CdS quantum dots/ZnO nanowire arrays heterojunction for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 30-34	6.4	23

236	Controllable hydrothermal synthesis of ZnO nanowires arrays on Al-doped ZnO seed layer and patterning of ZnO nanowires arrays via surface modification of substrate. <i>Applied Surface Science</i> , 2011 , 257, 10134-10140	6.7	23
235	Sol-gel derived hard optical coatings via organic/inorganic composites. <i>Composites Science and Technology</i> , 2003 , 63, 347-351	8.6	23
234	Optical and mechanical properties of sol-gel silica/titania hard optical coatings derived from methyltrimethoxysilane and tetrapropylorthotitanate as precursors. <i>Optical Materials</i> , 2003 , 22, 31-37	3.3	23
233	Annealing atmosphere effect on Ni states in the thermal-decomposed NiOx films for perovskite solar cell application. <i>Electrochimica Acta</i> , 2018 , 282, 81-88	6.7	22
232	Preparation and Characterizations of TiO ₂ /Organically Modified Silane Composite Materials Produced by the Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2001 , 20, 187-195	2.3	22
231	Solvothermal synthesis of highly crystalline SnO ₂ nanoparticles for flexible perovskite solar cells application. <i>Materials Letters</i> , 2019 , 234, 311-314	3.3	22
230	Novel fabrication of TiO ₂ /ZnO nanotube array heterojunction for dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 7454	3.7	21
229	Multi-Influences of Ionic Migration on Illumination-Dependent Electrical Performances of Inverted Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16051-16057	3.8	21
228	Nanosphere assembled mesoporous titanium dioxide with advanced photocatalytic activity using absorbent cotton as template. <i>Journal of Materials Science</i> , 2012 , 47, 7210-7216	4.3	21
227	Hydrothermal synthesis and visible-light photocatalytic activity of porous peanut-like BiVO ₄ and BiVO ₄ /Fe ₃ O ₄ submicron structures. <i>Ceramics International</i> , 2013 , 39, 9163-9172	5.1	21
226	Vacuum thermal-evaporated SnO ₂ as uniform electron transport layer and novel management of perovskite intermediates for efficient and stable planar perovskite solar cells. <i>Organic Electronics</i> , 2019 , 65, 207-214	3.5	21
225	Bilayer photoanode approach for efficient In ₂ O ₃ based planar heterojunction perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 938-944	5.7	21
224	Innovative salt-blocking technologies of photothermal materials in solar-driven interfacial desalination. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16233-16254	13	21
223	Understanding MXene-Based Symmetric Supercapacitors and Redox Electrolyte Energy Storage. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5006-5014	6.1	20
222	ZnO/TiO ₂ nanohexagon arrays heterojunction photoanode for enhancing power conversion efficiency in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 610-618	5.7	20
221	Advanced Ag/rGO/TiO ₂ ternary nanocomposite based photoanode approaches to highly-efficient plasmonic dye-sensitized solar cells. <i>Optics Communications</i> , 2019 , 453, 124408	2	20
220	ZnO/CdS/CdSe core/double shell nanorod arrays derived by a successive ionic layer adsorption and reaction process for quantum dot-sensitized solar cells. <i>Semiconductor Science and Technology</i> , 2011 , 26, 095028	1.8	20
219	Sol-Gel Derived Titania/Eglycidoxypropyltrimethoxysilane and Methyltrimethoxysilane Hybrid Materials for Optical Waveguides. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 28, 319-325	2.3	20

218	Preparation of hard optical coatings based on an organic/inorganic composite by sol-gel method. <i>Materials Letters</i> , 2000 , 42, 326-330	3.3	20
217	A novel two-dimensional accordion-like titanium carbide (MXene) for adsorption of Cr(VI) from aqueous solution. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1850035	1.3	20
216	Enhanced photoluminescence property of sulfate ions modified YAG:Ce ³⁺ phosphor by co-precipitation method. <i>Journal of Rare Earths</i> , 2017 , 35, 217-222	3.7	19
215	New architecture of a petal-shaped Nb ₂ O ₅ nanosheet film on FTO glass for high photocatalytic activity. <i>RSC Advances</i> , 2016 , 6, 9581-9588	3.7	19
214	Enhanced photocatalytic performance of sensitized mesoporous TiO ₂ nanoparticles by carbon mesostructures. <i>RSC Advances</i> , 2014 , 4, 3332-3339	3.7	19
213	Improved performance in dye-sensitized solar cells by rationally tailoring anodic TiO ₂ nanotube length. <i>Journal of Alloys and Compounds</i> , 2012 , 540, 159-164	5.7	19
212	Photo-patternable GeO ₂ -contained organic-inorganic hybrid sol-gel films for photonic applications. <i>Optics Express</i> , 2008 , 16, 3490-5	3.3	19
211	Effects of titanium content on properties of sol-gel silica-titania films via organically modified silane precursors. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 471-476	3	19
210	Methanol and Diethanolamine Assisted Synthesis of Flexible Nitrogen-Doped Ti ₃ C ₂ (MXene) Film for Ultrahigh Volumetric Performance Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 586-596	6.1	19
209	Synthesis and characterization of ZnO nanospheres sensitized BiOBr plates with enhanced photocatalytic performances. <i>Materials Letters</i> , 2016 , 182, 210-213	3.3	18
208	Hydrothermal Synthesis and Characterization of Visible-Light-Driven Dumbbell-Like BiVO ₄ and Ag/BiVO ₄ Photocatalysts. <i>Journal of Cluster Science</i> , 2013 , 24, 531-547	3	18
207	Nd:YAG nano-crystalline powders derived by combining co-precipitation method with citric acid treatment. <i>Ceramics International</i> , 2012 , 38, 3185-3189	5.1	18
206	Deposition of transparent TiO ₂ nanotubes-films via electrophoretic technique for photovoltaic applications. <i>Science China Materials</i> , 2015 , 58, 785-790	7.1	17
205	Tunable plasmon-enhanced broadband light harvesting for perovskite solar cells. <i>Journal of Power Sources</i> , 2018 , 383, 42-49	8.9	17
204	Bi ₂ Sn ₂ O ₇ /TiO ₂ nanocomposites for enhancing visible light photocatalytic activity. <i>RSC Advances</i> , 2014 , 4, 49900-49907	3.7	17
203	Luminescence properties from erbium oxide nanocrystals dispersed in titania/organically modified silane composite sol-gel thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 209-213	2.6	17
202	Preparation and luminescence properties of neodymium(III) oxide nanocrystals dispersed in sol-gel titania/(β -glycidoxypropyl)trimethoxysilane composite thin films. <i>Journal of Materials Research</i> , 2002 , 17, 1399-1405	2.5	17
201	Sol-gel derived nanocrystalline thin films of PbTiO ₃ on glass substrate. <i>Thin Solid Films</i> , 2000 , 375, 109-112	1.3	17

200	Photoinduced Phase Segregation Leading to Evident Open-Circuit Voltage Loss in Efficient Inorganic CsPbI ₃ Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7035-7041	6.4	17
199	Tailoring Electronic Properties of SnO ₂ Quantum Dots via Aluminum Addition for High-Efficiency Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900041	7.1	17
198	Nitrogen-doped graphene/multiphase nickel sulfides obtained by Ni-C ₃ N ₃ S ₃ (metallopolymer) assisted synthesis for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2019 , 301, 332-341	6.7	16
197	Crack-free polydimethylsiloxane-bioactive glass-poly(ethylene glycol) hybrid monoliths with controlled biomineralization activity and mechanical property for bone tissue regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 126-33	6	16
196	ZnO nanorods arrays with Ag nanoparticles on the (002) plane derived by liquid epitaxy growth and electrodeposition process. <i>Thin Solid Films</i> , 2011 , 520, 186-192	2.2	16
195	Preparation and optical properties of sol-gel derived photo-patternable organic-inorganic hybrid films for optical waveguide applications. <i>Thin Solid Films</i> , 2009 , 518, 290-294	2.2	16
194	PbS QD-based photodetectors: future-oriented near-infrared detection technology. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 417-438	7.1	16
193	Synthesis of high quality CuO nanoflakes and CuO-Au nanohybrids for superior visible light photocatalytic behavior. <i>RSC Advances</i> , 2016 , 6, 81607-81613	3.7	15
192	Facile Synthesis of Self-Sensitized TiO ₂ Photocatalysts and Their Higher Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3941-3946	3.8	15
191	Sol-gel fabrication and properties of optical channel waveguides and gratings made from composites of titania and organically modified silane. <i>Optical Engineering</i> , 2002 , 41, 1733	1.1	15
190	Synergistically Coupling Phosphorus-Doped Molybdenum Carbide with MXene as a Highly Efficient and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12990-12998	8.3	15
189	Self-assembly of metal-ion-responsive supramolecular coordination complexes and their photophysical properties. <i>Dalton Transactions</i> , 2017 , 46, 3120-3124	4.3	14
188	Reporting performance in MoS ₂ /TiO ₂ bilayer and heterojunction films based dye-sensitized photovoltaic devices. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 481-488	5.7	14
187	Additive-assisted one-step formed perovskite/hole conducting materials graded heterojunction for efficient perovskite solar cells. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 182-189	9.3	14
186	Fabrication of micro-lens arrays built in photosensitive hybrid films by UV-cured imprinting technique. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 60, 71-80	2.3	14
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