Chun-Rui Wang

List of Publications by Year
in descending order

54	709	516710 16	610901 24
papers	citations	h-index	g-index

54	54	54	878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing of carbon cloth @ Co-MOF @ SiO2 as superior flexible anode for lithium-ion battery. Journal of Alloys and Compounds, 2022, 902, 163680.	5.5	17
2	Bipolar resistive switching in Ag/VO₂(B)/SiO_x/n⁺⁺Si RRAM. Materials Research Express, 2022, 9, 035003.	1.6	0
3	High-Performance and Broadband Flexible Photodetectors Employing Multicomponent Alloyed 1D CdS_xSe_{1â€“x} Micro-Nanostructures. ACS Applied Materials & Interfaces, 2022, 14, 19659-19671.	8.0	12
4	Abnormal SPR-Mediated Photocatalytic Enhancement of Ag Nanocubes Covered by AgCl Ultra-thin Layer. Plasmonics, 2022, 17, 1783-1790.	3.4	1
5	Construction of Î±-MnO2 on Carbon Fibers Modified with Carbon Nanotubes for Ultrafast Flexible Supercapacitors in Ionic Liquid Electrolytes with Wide Voltage Windows. Nanomaterials, 2022, 12, 2020.	4.1	9
6	Random-resistor network modeling of resistance hysteresis of vanadium dioxide thin films. Journal of Applied Physics, 2022, 132, 015301.	2.5	2
7	Recent progress in Li-ion batteries with TiO2 nanotube anodes grown by electrochemical anodization. Rare Metals, 2021, 40, 249-271.	7.1	45
8	CdS nanobelt-based self-powered flexible photodetectors with high photosensitivity. Materials Advances, 2021, 2, 6031-6038.	5.4	25
9	High-performance multi-dimensional nitrogen-doped N+MnO2@TiC/C electrodes for supercapacitors. Electrochimica Acta, 2021, 370, 137716.	5.2	24
10	Bending effect on the Majorana bound states in planar Josephson junctions. Journal of Physics Condensed Matter, 2021, 33, 385001.	1.8	0
11	Evaluation of the Titanium Substrate Effect on the Morphology of Anodic TiO₂ Nanotubes. ECS Journal of Solid State Science and Technology, 2021, 10, 083008.	1.8	2
12	Flexible Photodetectors with High Responsivity and Broad Spectral Response Employing Ternary Sn_xCd_{1â€“x}S Micronanostructures. ACS Applied Electronic Materials, 2021, 3, 4151-4161.	4.3	12
13	Theoretical investigation of the scanning tunneling microscopy of Majorana bound states in topological superconductor vortices. Journal of Physics Condensed Matter, 2021, 33, 025301.	1.8	1
14	Efficient coupling of MnO₂/TiN on carbon cloth positive electrode and Fe₂O₃/TiN on carbon cloth negative electrode for flexible ultra-fast hybrid supercapacitors. RSC Advances, 2021, 11, 35726-35736.	3.6	8
15	Enhanced Spontaneous Antibacterial Activity of Î´-MnO2 by Alkali Metals Doping. Frontiers in Bioengineering and Biotechnology, 2021, 9, 788574.	4.1	6
16	Effect of off-stoichiometry on the thermal conductivity of amorphous GeTe. Physica Scripta, 2021, 96, 125730.	2.5	0
17	Needle-like CoO nanowire composites with NiO nanosheets on carbon cloth for hybrid flexible supercapacitors and overall water splitting electrodes. RSC Advances, 2020, 10, 37489-37499.	3.6	23
18	Quantum transport of planar Josephson junctions with Majorana bound states. Physical Review B, 2020, 102, .	3.2	6

#	Article	IF	Citations
19	SbSI microrod based flexible photodetectors. Journal Physics D: Applied Physics, 2020, 53, 345106.	2.8	10
20	NiFeP nanoflakes composite with CoP on carbon cloth as flexible and durable electrocatalyst for efficient overall water splitting. Nanotechnology, 2019, 30, 485402.	2.6	9
21	Quantum interference of Josephson current in topological Anderson insulator junctions. Journal of Physics Condensed Matter, 2019, 31, 285301.	1.8	1
22	Enhanced performance of lithium ion batteries from self-doped TiO2 nanotube anodes via an adjustable electrochemical process. Electrochimica Acta, 2019, 326, 134972.	5.2	25
23	Investigating the effect of MnO₂ band gap in hybrid MnO₂â€“Au materials over the SPR-mediated activities under visible light. Journal of Materials Chemistry A, 2019, 7, 925-931.	10.3	26
24	SbSI whisker/PbI₂ flake mixed-dimensional van der Waals heterostructure for photodetection. CrystEngComm, 2019, 21, 3779-3787.	2.6	24
25	Tuning Thermal Catalytic Enhancement in Doped MnO₂â€“Au Nano-Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 17444-17451.	8.0	32
26	The Novel of nâ€“pâ€“n Type Transition in the ZnSe/Ge Heterojunction Nanowire: First Principles Study. Journal of Nanoscience and Nanotechnology, 2019, 19, 5847-5853.	0.9	0
27	Micro-nano scale imaging and the effect of annealing on the perpendicular structure of electrical-induced VO2 phase transition. Applied Surface Science, 2019, 470, 168-176.	6.1	7
28	The effect of Argon pressure dependent V thin film on the phase transition process of (020) VO2 thin film. Applied Surface Science, 2018, 427, 304-311.	6.1	15
29	Millimeter-sized PbI₂ flakes and Pb₅S₂I₆ nanowires for flexible photodetectors. Journal of Materials Chemistry C, 2018, 6, 7188-7194.	5.5	13
30	Synthesis and characteristics of p-type CdS nanobelts. Materials Research Express, 2017, 4, 115013.	1.6	3
31	Facile Hydrothermal Synthesis of SnO₂Nanoparticles with Enhanced Lithium Storage Performance. Chemistry Letters, 2017, 46, 1639-1642.	1.3	6
32	Self-powered UV-visible photodetector with fast response and high photosensitivity employing an Fe:TiO₂/n-Si heterojunction. RSC Advances, 2017, 7, 51744-51749.	3.6	16
33	Magnetic Phase Transition of Gadolinium Depending on Interatomic Distance. Journal of Nanoscience and Nanotechnology, 2016, 16, 8113-8117.	0.9	0
34	Magnetic and Electronic Properties of Gd-Doped Ga_nN_n (n = 6â€“12) Clusters: First-Principles Study. Journal of Nanoscience and Nanotechnology, 2016, 16, 8096-8100.	0.9	1
35	Strain distribution and Raman spectroscopy in individual Ge/CdSe biaxial nanowires. Japanese Journal of Applied Physics, 2015, 54, 025001.	1.5	0
36	ZnSeâ€Based Longitudinal Twinning Nanowires. Advanced Engineering Materials, 2014, 16, 459-465.	3.5	18

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37	In Situ Atom Scale Visualization of Domain Wall Dynamics in VO2 Insulator-Metal Phase Transition. Scientific Reports, 2014, 4, 6544.	3.3	31
38	Fabrication and characterization of amorphous ITO/p-Si heterojunction solar cell. Science China Technological Sciences, 2013, 56, 1870-1876.	4.0	7
39	Structural, vibrational and luminescence properties of longitudinal twinning Zn₂GeO₄nanowires. CrystEngComm, 2013, 15, 764-768.	2.6	19
40	Fabrication of ZnO/CdS/Cu₂ZnSnS₄pâ€“n heterostructure nanorod arrays via a solution-based route. CrystEngComm, 2013, 15, 1139-1145.	2.6	24
41	Different temperature dependence of excitonic and defect-related photoluminescence spectra in ZnS nanobelts and nanowires. Journal Physics D: Applied Physics, 2012, 45, 095301.	2.8	12
42	Growth, structural and vibrating properties of CdSeâ€“Ge, CdSeâ€“Geâ€“CdSe, CdSeâ€“Ge/Ge, Geâ€“GeSe heterostructure nanowires and GeSe nanobelts. CrystEngComm, 2011, 13, 2734.	2.6	10
43	One-step aqueous solution synthesis of Ge nanocrystals from GeO2 powders. CrystEngComm, 2011, 13, 3674.	2.6	37
44	Synthesis and vibrating properties ZnSe/Ge bi-axial heterostructural nanowires. Chemical Physics Letters, 2011, 501, 491-495.	2.6	11
45	Hierarchical Cd4SiS6/SiO2 Heterostructure Nanowire Arrays. Nanoscale Research Letters, 2010, 5, 231-6.	5.7	3
46	Formation of Ge Nanosheets Decorated Hierarchical ZnSe/GeSe Nanowire Heterostructures. Japanese Journal of Applied Physics, 2010, 49, 025001.	1.5	6
47	Raman, Far Infrared, and MÃ¶ssbauer Spectroscopy of CuFeS₂ Nanocrystallites. Japanese Journal of Applied Physics, 2009, 48, 023003.	1.5	14
48	Growth of Amorphous SiO2 Net-Like Nanobelts via a Simple Thermal Evaporation of CdS Powder~!2008-08-27~!2008-10-01~!2008-11-26~!. The Open Nanoscience Journal, 2008, 2, 43-46.	1.8	2
49	ZnSe-Si Bi-coaxial Nanowire Heterostructures. Advanced Functional Materials, 2005, 15, 1471-1477.	14.9	67
50	Structure and Luminescence Properties of CdS Nanobelts. Japanese Journal of Applied Physics, 2004, 43, 7798-7801.	1.5	5
51	The synthesis and characterization of Pb5S2I6 whiskers and tubules. Inorganic Chemistry Communication, 2003, 6, 670-674.	3.9	4
52	Synthesis of novel SbSI nanorods by a hydrothermal method. Inorganic Chemistry Communication, 2001, 4, 339-341.	3.9	34
53	Characterization of PbSnS3 Nanorods Prepared via an Iodine Transport Hydrothermal Method. Journal of Solid State Chemistry, 2001, 160, 50-53.	2.9	17
54	Growth of Pb5S2I6 meso-scale tubular crystals. Journal of Crystal Growth, 2001, 226, 175-178.	1.5	7