

Dongsheng Tang

List of Publications by Year in descending order

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69
papers

1,440
citations

394421

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docs citations

69
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of hydrogen-ion storage performance of tungsten trioxide nanowires by niobium doping. <i>Nanotechnology</i> , 2022, 33, 105403.	2.6	3
2	Engineering In-plane Nickel Phosphide Heterointerfaces with Interfacial sp ³ /p Hybridization for Highly Efficient and Durable Hydrogen Evolution at 2 A cm ⁻² . <i>Small</i> , 2022, 18, e2105642.	10.0	57
3	Boosting Alkaline Hydrogen and Oxygen Evolution Kinetic Process of Tungsten Disulfide-based Heterostructures by Multi-site Engineering. <i>Small</i> , 2022, 18, e2104624.	10.0	44
4	Emission enhancement and exciton species modulation in monolayer WS ₂ via decoration of CdTe quantum dots. <i>Applied Physics Letters</i> , 2022, 120, 261105.	3.3	0
5	Photoluminescence and Boosting Electron-Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. <i>Nanoscale Research Letters</i> , 2021, 16, 19.	5.7	2
6	Directly Probing Interfacial Coupling in a Monolayer MoSe ₂ and CuPc Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18372-18379.	8.0	5
7	In-plane anisotropic Raman response of layered In ₂ Te ₅ semiconductor. <i>Applied Physics Letters</i> , 2021, 118, 182105.	3.3	3
8	High-performance near-infrared photodetector based on quasi one-dimensional layered (TaSe ₄) ₂ I. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	8
9	Metallic MoO ₂ -Modified Graphitic Carbon Nitride Boosting Photocatalytic CO ₂ Reduction via Schottky Junction. <i>Solar Rrl</i> , 2020, 4, 1900416.	5.8	59
10	Wide spectrum multi-sub-band modulation of excitons and defect state emission simultaneously in surface oxidized CdS micro/nano-wires. <i>AIP Advances</i> , 2020, 10, 125213.	1.3	0
11	Stable green and red dual-color emission in all-inorganic halide-mixed perovskite single microsheets. <i>RSC Advances</i> , 2020, 10, 18368-18376.	3.6	2
12	Ultrafast hydrogen-ion storage in MoO ₃ nanoribbons. <i>Solid State Ionics</i> , 2020, 353, 115380.	2.7	17
13	Highly Robust Non-Noble Alkaline Hydrogen-Evolving Electrocatalyst from Se-Doped Molybdenum Disulfide Particles on Interwoven CoSe ₂ Nanowire Arrays. <i>Small</i> , 2020, 16, e1906629.	10.0	70
14	Branched TiO ₂ Nanorod Arrays Decorated with Au Nanostructure for Plasmon-Enhanced Photoelectrochemical Water Splitting. <i>Journal of the Electrochemical Society</i> , 2020, 167, 026509.	2.9	15
15	Effect of hydrogen ions in the adsorbed water layer on the resistive switching properties of hexagonal WO ₃ nanowire. <i>Journal of Applied Physics</i> , 2019, 126, 054303.	2.5	5
16	Graphitic Carbon Nitride with Dopant Induced Charge Localization for Enhanced Photoreduction of CO ₂ to CH ₄ . <i>Advanced Science</i> , 2019, 6, 1900796.	11.2	251
17	Positive and Negative Photoconductivity Conversion Induced by H ₂ O Molecule Adsorption in WO ₃ Nanowire. <i>Nanoscale Research Letters</i> , 2019, 14, 144.	5.7	14
18	Strong temperature-strain coupling in the interface of Sb thin film on flexible PDMS substrate. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	3

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19	Simultaneous Triplet Exciton-Phonon and Exciton-Photon Photoluminescence in the Individual Weak Confinement CsPbBr ₃ Micro/Nanowires. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25349-25358.	3.1	47
20	Effect of oxygen vacancies on the resistive switching behavior of hexagonal WO ₃ nanowire. <i>Materials Research Express</i> , 2019, 6, 085072.	1.6	6
21	Raman investigation of layered ZrGeTe ₄ semiconductor. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	17
22	1D ZnSSe-ZnSe Axial Heterostructure and its Application for Photodetectors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800770.	5.1	16
23	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Phonon and Electron-Phonon Interactions of Air Stable MoO ₂ Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2182-2190.	4.6	28
24	TiO ₂ Nanosheet Arrays with Layered SnS ₂ and CoO _x Nanoparticles for Efficient Photoelectrochemical Water Splitting. <i>Nanoscale Research Letters</i> , 2019, 14, 342.	5.7	18
25	Amorphous Co-Pi anchored on CdSe/TiO ₂ nanowire arrays for efficient photoelectrochemical hydrogen production. <i>Journal of Materials Science</i> , 2019, 54, 3284-3293.	3.7	16
26	Single crystalline SmB ₆ nanowires for self-powered, broadband photodetectors covering mid-infrared. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	14
27	Large-scale synthesis and quantitative characterization of size-controllable potassium tungsten bronze nanowires. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 095305.	2.8	4
28	Ti-Assisted Sb ₂ S ₃ Nanoparticles Uniformly Grafted on Graphene Effectively Improves Sodium-Ion Storage Performance. <i>ChemElectroChem</i> , 2018, 5, 811-816.	3.4	33
29	Temperature dependent Raman of BiTe nanotubes. <i>AIP Advances</i> , 2018, 8, .	1.3	7
30	Cs _{0.33} WO ₃ as a high-performance transparent solar radiation shielding material for windows. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	14
31	Temperature-Dependent Raman Scattering of Large Size Hexagonal Bi ₂ Se ₃ Single-Crystal Nanoplates. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1794.	2.5	19
32	Anomalous Temperature-Dependent Raman Scattering of Vapor-Deposited Two-Dimensional Bi Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24459-24466.	3.1	22
33	Surface polarons and optical micro-cavity modulated broad range multi-mode emission of Te-doped CdS nanowires. <i>Nanotechnology</i> , 2018, 29, 465709.	2.6	17
34	Ultrathin MoO ₂ nanosheets with good thermal stability and high conductivity. <i>AIP Advances</i> , 2017, 7, .	1.3	37
35	Resistive switching behavior of hexagonal sodium tungsten bronze nanowire. <i>Solid State Ionics</i> , 2017, 308, 107-111.	2.7	14
36	Spin-polarized surface state transport in a topological Kondo insulator SmB ₆ nanowire. <i>Physical Review B</i> , 2017, 95, .	3.2	9

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37	Ultrathin GaGeTe p-type transistors. Applied Physics Letters, 2017, 111, .	3.3	28
38	Interplay between topological surface states and superconductivity in SmB ₆ /NbN tunnel junctions. Physical Review B, 2017, 96, .	3.2	3
39	Large-scale synthesis and electrical transport properties of single-crystalline SmB ₆ nanowires. Journal Physics D: Applied Physics, 2016, 49, 265302.	2.8	11
40	First-principles prediction of solar radiation shielding performance for transparent windows of GdB ₆ . Journal of Applied Physics, 2016, 119, .	2.5	14
41	Near-infrared radiation absorption properties of covellite (CuS) using first-principles calculations. AIP Advances, 2016, 6, .	1.3	21
42	Solar radiation shielding properties of transparent LaB ₆ filters through experimental and first-principles calculation methods. Ceramics International, 2016, 42, 14278-14281.	4.8	15
43	Modulating memristive performance of hexagonal WO ₃ nanowire by water-oxidized hydrogen ion implantation. Scientific Reports, 2016, 6, 32712.	3.3	21
44	High-performance photodetectors based on bandgap engineered novel layer GaSe _{0.5} Te _{0.5} nanoflakes. RSC Advances, 2016, 6, 60862-60868.	3.6	15
45	Multi-layered MoS ₂ phototransistors as high performance photovoltaic cells and self-powered photodetectors. RSC Advances, 2015, 5, 45239-45248.	3.6	27
46	Controllable fully spin-polarized transport in a ferromagnetically doped topological insulator junction. Journal of Applied Physics, 2014, 115, 154310.	2.5	4
47	Electrical characterization of H ₂ S adsorption on hexagonal WO ₃ nanowire at room temperature. Journal of Applied Physics, 2014, 116, 164310.	2.5	10
48	Broad spectral response photodetector based on individual tin-doped CdS nanowire. AIP Advances, 2014, 4, .	1.3	47
49	Magnetic control of valley and spin degrees of freedom via magnetotransport in <i>n</i> -type monolayer MoS ₂ . Journal of Physics Condensed Matter, 2014, 26, 485008.	1.8	6
50	Ultra-high sensitivity and gain white light photodetector based on GaTe/Sn : CdS nanoflake/nanowire heterostructures. Nanotechnology, 2014, 25, 445202.	2.6	17
51	Enhanced memristive performance of individual hexagonal tungsten trioxide nanowires by water adsorption based on Grotthuss mechanism. Materials Research Express, 2014, 1, 025025.	1.6	12
52	The effect of dopant and optical micro-cavity on the photoluminescence of Mn-doped ZnSe nanobelts. Nanoscale Research Letters, 2013, 8, 314.	5.7	12
53	Memristive properties of hexagonal WO ₃ nanowires induced by oxygen vacancy migration. Nanoscale Research Letters, 2013, 8, 50.	5.7	38
54	Surface polarity induced three-dimensional wurtzite ZnS/ZnS _x Se _{1-x} nano-heterostructures with integrating emission property. CrystEngComm, 2013, 15, 9988.	2.6	3

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55	Structure and optical properties of pure and doped ZnO 1D nanostructures. <i>Materials Letters</i> , 2013, 91, 369-371.	2.6	13
56	Synthesis and photoluminescence of pure and Mn doped CdS nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 47, 162-166.	2.7	19
57	Large physisorption strain and edge modification of Pd on monolayer graphene. <i>Nanoscale</i> , 2013, 5, 124-127.	5.6	7
58	Tuning emission property of CdS nanowires via indium doping. <i>Journal of Alloys and Compounds</i> , 2013, 551, 150-154.	5.5	9
59	Luminescence and local photonic confinement of single ZnSe:Mn nanostructure and the shape dependent lasing behavior. <i>Nanotechnology</i> , 2013, 24, 055201.	2.6	24
60	Controlled Fabrication of Intermolecular Junctions of Single-Walled Carbon Nanotube/Graphene Nanoribbon. <i>Small</i> , 2013, 9, 2405-2409.	10.0	13
61	Reconfigurable resistive switching devices based on individual tungsten trioxide nanowires. <i>AIP Advances</i> , 2013, 3, .	1.3	17
62	Effect of an oxidizing environment on the phase structure of lead oxide nanowires. <i>AIP Advances</i> , 2013, 3, 022120.	1.3	5
63	Experimental observation of radial breathing-like mode of graphene nanoribbons. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	14
64	Spatial distribution of spin polarization in a channel on the surface of a topological insulator. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 185301.	1.8	6
65	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1415-1421.	3.1	33
66	Scanning tunneling microscopy image modeling for zigzag-edge graphene nanoribbons. <i>Applied Physics Letters</i> , 2011, 98, 263103.	3.3	11
67	Fabrication of SnO ₂ one-dimensional nanostructures with graded diameters by chemical vapor deposition method. <i>Journal of Crystal Growth</i> , 2010, 312, 220-225.	1.5	17
68	Multi-Stable Conductance States in Metallic Double-Walled Carbon Nanotubes. <i>Nanoscale Research Letters</i> , 2009, 4, 538-543.	5.7	1
69	Effect of H ₂ O adsorption on the electrical transport properties of double-walled carbon nanotubes. <i>Carbon</i> , 2006, 44, 2155-2159.	10.3	51