Han Huang

List of Publications by Year
in descending order

201 papers	6,357 citations	61857 43 h-index	91712 69 g-index
204 all docs	204 docs citations	204 times ranked	9018 citing authors

#	Article	IF	Citations
1	Anisotropic in-plane thermal conductivity for multi-layer WTe2. Nano Research, 2022, 15, 401-407.	5.8	12
2	Initial growth behavior of bismuth on Ag(111) and Au(111). Wuli Xuebao/Acta Physica Sinica, 2022, 71, 026101.	0.2	3
3	Ultrafast optical spectroscopy evidence of pseudogap and electron-phonon coupling in an iron-based superconductor KCa2Fe4As4F2. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	15
4	Emission properties of sequentially deposited ultrathin CH3NH3PbI3/MoS2 heterostructures. Current Applied Physics, 2022, 36, 27-33.	1.1	8
5	Phonon anharmonicities in 7-armchair graphene nanoribbons. Carbon, 2022, 190, 312-318.	5.4	11
6	Temperature-dependent photoluminescence of Co-evaporated MAPbI3 ultrathin films. Results in Physics, 2022, 34, 105326.	2.0	11
7	Polarization-perceptual anisotropic two-dimensional ReS₂ neuro-transistor with reconfigurable neuromorphic vision. Materials Horizons, 2022, 9, 1448-1459.	6.4	38
8	Passivating the interface between halide perovskite and SnO2 by capsaicin to accelerate charge transfer and retard recombination. Applied Physics Letters, 2022, 120, .	1.5	4
9	Recent advances in printed liquid metals for wearable healthcare sensors: a review. Journal Physics D: Applied Physics, 2022, 55, 283002.	1.3	11
10	Passivation effect of NTCDA nanofilm on black phosphorus. Results in Physics, 2022, 36, 105466.	2.0	0
11	Picomolar detection of carbohydrate-lectin interactions on piezoelectrically printed microcantilever array. Biosensors and Bioelectronics, 2022, 205, 114088.	5.3	4
12	Frictional shear stress of ZnO nanowires on natural and pyrolytic graphite substrates. Friction, 2022, 10, 2059-2068.	3.4	2
13	Highly in-plane anisotropy of thermal transport in suspended ternary chalcogenide Ta2NiS5. Nano Research, 2022, 15, 6601-6606.	5.8	10
14	Improved moisture resistance and interfacial recombination of perovskite solar cells by doping oleylamine in spiro-OMeTAD based hole-transport layer. Applied Physics Letters, 2022, 120, .	1.5	4
15	SnO2 modified mesoporous ZrO2 as efficient electron-transport layer for carbon-electrode based, low-temperature mesoscopic perovskite solar cells. Applied Physics Letters, 2022, 120, .	1.5	6
16	Micromechanics of machining and wear in hard and brittle materials. Journal of the American Ceramic Society, 2021, 104, 5-22.	1.9	63
17	A Highâ€Performance and Longâ€Term Airâ€Stable CH₃NH₃PbI₃/C8BTBT Heterojunction Photodetector Fabricated via Chemical Vapor Deposition. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000479.	1.2	11
18	Phase Engineering of Epitaxial Stanene on a Surface Alloy. Journal of Physical Chemistry Letters, 2021, 12, 211-217.	2.1	6

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19	Initiating Ullmann-like coupling of Br2Py by a semimetal surface. Scientific Reports, 2021, 11, 3414.	1.6	9
20	Controlled growth of transition metal dichalcogenide via thermogravimetric prediction of precursors vapor concentration. Nano Research, 2021, 14, 2867-2874.	5.8	3
21	Catalyst-free synthesis and mechanical characterization of TaC nanowires. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	10
22	Thermodynamics Controlled Sharp Transformation from InP to GaP Nanowires via Introducing Trace Amount of Gallium. Nanoscale Research Letters, 2021, 16, 49.	3.1	5
23	Temperature evolution of quasiparticle dispersion and dynamics in semimetallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^' via high-resolution angle-resolved photoemission spectroscopy and ultrafast optical pump-probe spectroscopy. Physical Review B, 2021, 103, .	1.1	10
24	Temperature coefficient of Youngâ€™s modulus of silver microwhiskers determined by a laser Doppler vibration measurement. Modern Physics Letters B, 2021, 35, 2150350.	1.0	2
25	Creating a Dualâ€Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. Small, 2021, 17, e2102368.	5.2	44
26	Polarized optical properties of hollowed-out 2D-gold-nanosheets studied using FDTD simulations. AIP Advances, 2021, 11, 085026.	0.6	2
27	Thickness dependent anisotropy of in-plane Raman modes under different temperatures in supported few-layer WTe2. Applied Physics Letters, 2021, 119, 063104.	1.5	10
28	Efficient and Anisotropic Second Harmonic Generation in Fewâ€Layer SnS Film. Advanced Optical Materials, 2021, 9, 2101200.	3.6	24
29	Simultaneous Improvement of the Power Conversion Efficiency and Stability of Perovskite Solar Cells by Doping PMMA Polymer in Spiroâ€OMeTADâ€Based Holeâ€Transporting Layer. Solar Rrl, 2021, 5, 2100408.	3.1	14
30	Symmetrical dehalogenation of 2, 7-dibromopyrene on Cu(1 1 1) with tunable intermediates and reaction paths. Applied Surface Science, 2021, 566, 150663.	3.1	3
31	Dirac semimetal PdTe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e250" altimg="si63.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> temperature-dependent quasiparticle dynamics and electronâ€“phonon coupling. Results in Physics, 2021, 30, 104816.	2.0	8
32	A comparative study on the dielectric response and microwave absorption performance of FeNi-capped carbon nanotubes and FeNi-cored carbon nanoparticles. Nanotechnology, 2021, 32, 105701.	1.3	20
33	Stress Effects on Temperature-Dependent In-Plane Raman Modes of Supported Monolayer Graphene Induced by Thermal Annealing. Nanomaterials, 2021, 11, 2751.	1.9	4
34	In-Plane Phonon Anisotropy and Anharmonicity in Exfoliated Natural Black Arsenic. Journal of Physical Chemistry Letters, 2021, 12, 10753-10760.	2.1	13
35	The adhesion of a mica nanolayer on a single-layer graphene supported by SiO₂ substrate characterised in air. Nanotechnology, 2021, 32, 045701.	1.3	3
36	Modification of FA0.85MA0.15Pb(I0.85Br0.15)3 Films by NH2-POSS. Crystals, 2021, 11, 1544.	1.0	3

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37	Flexible Planar Heterojunction Perovskite Solar Cells Fabricated via Sequential Rollâ€toâ€Roll Microgravure Printing and Slotâ€Die Coating Deposition. Solar Rrl, 2020, 4, 1900204.	3.1	47
38	Controlled growth of MoS2 via surface-energy alterations. Nanotechnology, 2020, 31, 035601.	1.3	5
39	Photoemission studies of C8-BTBT/La0.67Sr0.33MnO3 interface. Synthetic Metals, 2020, 260, 116261.	2.1	9
40	Electronic structure and spin polarization of Co/black phosphorus interface. Journal of Magnetism and Magnetic Materials, 2020, 499, 166297.	1.0	5
41	Micro-spacing in-air sublimation of submillimeter-scaled rubrene nanoribbons and nanosheets for efficient optical waveguides. Organic Electronics, 2020, 87, 105983.	1.4	6
42	Vertical 0Dâ€Perovskite/2Dâ€MoS₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectricâ€Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. Small, 2020, 16, e2005217.	5.2	87
43	Epitaxial growth of <010>-oriented MoO2 nanorods on m-sapphire. Current Applied Physics, 2020, 20, 1130-1135.	1.1	9
44	Evolutions of morphology and electronic properties of few-layered MoS2 exposed to UVO. Results in Physics, 2020, 19, 103634.	2.0	10
45	Neuromorphic Photoelectric Devices: Vertical 0Dâ€Perovskite/2Dâ€MoS₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectricâ€Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics (Small 45/2020). Small, 2020, 16, 2070244.	5.2	2
46	The Adhesion of Mica Nanolayers on a Silicon Substrate in Air. Advanced Materials Interfaces, 2020, 7, 2000541.	1.9	3
47	Modification of an ultrathin C₆₀ interlayer on the electronic structure and molecular packing of C8-BTBT on HOPG. Physical Chemistry Chemical Physics, 2020, 22, 25264-25271.	1.3	4
48	Eco-Friendly Water-Based Nanolubricants for Industrial-Scale Hot Steel Rolling. Lubricants, 2020, 8, 96.	1.2	18
49	High-performance and flexible CsPbBr₃ UVâ€“vis photodetectors fabricated via chemical vapor deposition. Journal Physics D: Applied Physics, 2020, 53, 354002.	1.3	11
50	Type-II Interface Band Alignment in the vdW PbI₂â€“MoSe₂ Heterostructure. ACS Applied Materials & Interfaces, 2020, 12, 32099-32105.	4.0	20
51	Direct Synthesis of Semimetal Phthalocyanines on a Surface with Insights into Interfacial Properties. Journal of Physical Chemistry C, 2020, 124, 8247-8256.	1.5	3
52	Critique of materialsâ€based models of ductile machining in brittle solids. Journal of the American Ceramic Society, 2020, 103, 6096-6100.	1.9	59
53	Mono-metal epitaxial growth for hollow gold microsheets and their hybrids for surface-enhanced Raman scattering. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	4
54	Epitaxial growth of single tellurium atomic wires on a Cu2Sb surface alloy. Applied Physics Letters, 2020, 116, .	1.5	10

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55	Ullmann coupling of 2,7-dibromopyrene on Au(1Â1Â1) assisted by surface adatoms. Applied Surface Science, 2020, 513, 145797.	3.1	19
56	Exploring the Adsorption Mechanism of Tetracene on Ag(110) by STM and Dispersion-Corrected DFT. Crystals, 2020, 10, 13.	1.0	2
57	FDTD simulation of the optical properties for a gold nanoparticle-over-nanosheet hybrid structure. Current Applied Physics, 2020, 20, 391-399.	1.1	14
58	Templated growth of oriented layered hybrid perovskites on 3D-like perovskites. Nature Communications, 2020, 11, 582.	5.8	167
59	Recent Advances in Tin: From Two-Dimensional Quantum Spin Hall Insulator to Bulk Dirac Semimetal. Journal of Physical Chemistry Letters, 2020, 11, 1317-1329.	2.1	15
60	Direct bilayer growth: a new growth principle for a novel WSe₂ homo-junction and bilayer WSe₂ growth. Nanoscale, 2020, 12, 3715-3722.	2.8	18
61	Detection of powder bed defects in selective laser sintering using convolutional neural network. International Journal of Advanced Manufacturing Technology, 2020, 107, 2485-2496.	1.5	25
62	Enormous enhancement in electrical performance of few-layered MoTe2 due to Schottky barrier reduction induced by ultraviolet ozone treatment. Nano Research, 2020, 13, 952-958.	5.8	25
63	Reactive Infiltration and Microstructural Characteristics of Sn-V Active Solder Alloys on Porous Graphite. Materials, 2020, 13, 1532.	1.3	5
64	Interfaces between MoO_x and MoX ₂ (X = S, Se, and Te)*. Chinese Physics B, 2020, 29, 116802.	0.7	7
65	Oxidation Behaviour of Steel During hot Rolling by Using TiO2-Containing Water-Based Nanolubricant. Oxidation of Metals, 2019, 92, 315-335.	1.0	9
66	Quick Optical Identification of the Defect Formation in Monolayer WSe2 for Growth Optimization. Nanoscale Research Letters, 2019, 14, 274.	3.1	23
67	Epitaxial Growth of Free-Standing Bismuth Film on Graphene Embedded with Nontrivial Properties. ACS Applied Electronic Materials, 2019, 1, 1817-1824.	2.0	12
68	PbI₂â€“MoS₂ Heterojunction: van der Waals Epitaxial Growth and Energy Band Alignment. Journal of Physical Chemistry Letters, 2019, 10, 4203-4208.	2.1	25
69	Breaking down and reconstruction of islands during the film growth of CuPc on HOPG. Applied Physics Letters, 2019, 114, .	1.5	9
70	Graphene Thermal Emitter with Enhanced Joule Heating and Localized Light Emission in Air. ACS Photonics, 2019, 6, 2117-2125.	3.2	53
71	CVD Grown MoS₂ Nanoribbons on MoS₂ Covered Sapphire(0001) Without Catalysts (Phys. Status Solidi RRL 7/2019). Physica Status Solidi - Rapid Research Letters, 2019, 13, 1970030.	1.2	1
72	Effects of CsPbBr3 nanocrystals concentration on electronic structure and surface composition of perovskite films. Organic Electronics, 2019, 73, 327-331.	1.4	22

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73	Highâ€Performance Flexible Perovskite Solar Cells via Precise Control of Electron Transport Layer. Advanced Energy Materials, 2019, 9, 1901419.	10.2	167
74	Revealing the Adsorption and Decomposition of EP-PTCDI on a Cerium Oxide Surface. ACS Omega, 2019, 4, 17939-17946.	1.6	3
75	Interfacial Effects on the Growth of Atomically Thin Film: Group VA Elements on Au(111). Advanced Materials Interfaces, 2019, 6, 1901050.	1.9	14
76	Youngâ€™s modulus of Sb2O3 micro- and nanowires determined accurately by a nanomanipulation-assisted thermal resonance method. AIP Advances, 2019, 9, .	0.6	4
77	Imaging and Dynamics of Water Hexamer Confined in Nanopores. ACS Nano, 2019, 13, 10622-10630.	7.3	10
78	Thermal-Driven Formation of 2D Nanoporous Networks on Metal Surfaces. Journal of Physical Chemistry C, 2019, 123, 26263-26271.	1.5	1
79	Mica Nanolayers: Environment-Dependent Adhesion Energy of Mica Nanolayers Determined by a Nanomanipulation-Based Bridging Method (Adv. Mater. Interfaces 2/2019). Advanced Materials Interfaces, 2019, 6, 1970012.	1.9	2
80	Yttria stabilized zirconia (YSZ) thin wall structures fabricated using laser engineered net shaping (LENS). International Journal of Advanced Manufacturing Technology, 2019, 105, 4491-4498.	1.5	25
81	One-step synthesis of centimeter-size alpha-MoO3 with single crystallinity. Applied Surface Science, 2019, 476, 789-795.	3.1	27
82	A homogeneous pâ€“n junction diode by selective doping of few layer MoSe₂ using ultraviolet ozone for high-performance photovoltaic devices. Nanoscale, 2019, 11, 13469-13476.	2.8	41
83	A large-scale, flexible and two-dimensional AuNP/NS as a highly active and homogeneous SERS substrate. Applied Physics Express, 2019, 12, 075005.	1.1	5
84	Structural Transformation of 2,7â€Dibromopyrene on Au(111) Mediated by Halogenâ€Bonding Motifs. ChemPhysChem, 2019, 20, 2376-2381.	1.0	10
85	Defect Generation and Surface Functionalization on Epitaxial Blue Phosphorene by C60 Adsorption. Journal of Physical Chemistry C, 2019, , .	1.5	13
86	Deformation behavior of porous PHBV scaffold in compression: A finite element analysis study. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 96, 1-8.	1.5	14
87	Akermanite reinforced PHBV scaffolds manufactured using selective laser sintering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2596-2610.	1.6	18
88	CVD Grown MoS 2 Nanoribbons on MoS 2 Covered Sapphire(0001) Without Catalysts. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900063.	1.2	26
89	Interface Energy-Level Alignment between Black Phosphorus and F₁₆CuPc Molecular Films. Journal of Physical Chemistry C, 2019, 123, 10443-10450.	1.5	12
90	Electronic structure evolution at DBBA/Au(111) interface W/O Bismuth insertion layer. Synthetic Metals, 2019, 251, 24-29.	2.1	10

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91	Investigating the Effects of Electron Beam Irradiation on Nanoscale Adhesion. , 2019, , .		3
92	Structural and electronic properties of atomically thin Bismuth on Au(111). Surface Science, 2019, 679, 147-153.	0.8	29
93	Interfacial electronic structures of MoOx/mixed perovskite photodetector. Organic Electronics, 2019, 65, 162-169.	1.4	30
94	Asymmetric Growth of Tetragon-Shaped Single-Crystalline Graphene Flakes on Copper Foil by Annealing Treatment under Oxygen-Free Conditions. Journal of Physical Chemistry C, 2019, 123, 2642-2650.	1.5	7
95	In vitro degradation of a unique porous PHBV scaffold manufactured using selective laser sintering. Journal of Biomedical Materials Research - Part A, 2019, 107, 154-162.	2.1	28
96	A laterally sensitive colloidal probe for accurately measuring nanoscale adhesion of textured surfaces. Nano Research, 2019, 12, 389-396.	5.8	15
97	Environmentâ€Dependent Adhesion Energy of Mica Nanolayers Determined by a Nanomanipulationâ€Based Bridging Method. Advanced Materials Interfaces, 2019, 6, 1801552.	1.9	6
98	All-inorganic perovskite CsPbBr₃ microstructures growth via chemical vapor deposition for high-performance photodetectors. Nanoscale, 2019, 11, 21386-21393.	2.8	51
99	Tribological Characteristics of Aqueous Graphene Oxide, Graphitic Carbon Nitride, and Their Mixed Suspensions. Tribology Letters, 2018, 66, 1.	1.2	32
100	Efficient, stable and flexible perovskite solar cells using two-step solution-processed SnO2 layers as electron-transport-material. Organic Electronics, 2018, 58, 126-132.	1.4	31
101	Epitaxial Growth of Highly Oriented Metallic MoO₂@MoS₂ Nanorods on C-sapphire. Journal of Physical Chemistry C, 2018, 122, 1860-1866.	1.5	33
102	Effects of Surface Roughness on the Kinetic Friction of SiC Nanowires on SiN Substrates. Tribology Letters, 2018, 66, 1.	1.2	12
103	Highly Efficient, Solution-Processed CsPbI₂Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. ACS Photonics, 2018, 5, 4104-4110.	3.2	64
104	Synthesis, microstructure, and mechanical behaviour of a unique porous PHBV scaffold manufactured using selective laser sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 151-160.	1.5	44
105	Interfacial Electronic Structures of Photodetectors Based on C8BTBT/Perovskite. ACS Applied Materials & Interfaces, 2018, 10, 20959-20967.	4.0	13
106	Seesaw-like polarized transmission behavior of silver nanowire arrays aligned by off-center spin-coating. Journal of Applied Physics, 2018, 123, .	1.1	15
107	Performance Evaluation and Lubrication Mechanism of Water-Based Nanolubricants Containing Nano-TiO2 in Hot Steel Rolling. Lubricants, 2018, 6, 57.	1.2	26
108	From MoO₂@MoS₂ Coreâ€“Shell Nanorods to MoS₂ Nanobelts. Physica Status Solidi (B): Basic Research, 2018, 255, 1800254.	0.7	23

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109	Interface Electronic Structure between Au and Black Phosphorus. Journal of Physical Chemistry C, 2018, 122, 18405-18411.	1.5	7
110	Accelerated electron extraction and improved UV stability of TiO2 based perovskite solar cells by SnO2 based surface passivation. Organic Electronics, 2018, 59, 184-189.	1.4	45
111	Fabricating Quasi-Free-Standing Graphene on a SiC(0001) Surface by Steerable Intercalation of Iron. Journal of Physical Chemistry C, 2018, 122, 21484-21492.	1.5	23
112	Energy Level Evolution and Oxygen Exposure of Fullerene/Black Phosphorus Interface. Journal of Physical Chemistry Letters, 2018, 9, 5254-5261.	2.1	13
113	Controlled Layer-by-Layer Oxidation of MoTe₂ via O₃ Exposure. ACS Applied Materials & Interfaces, 2018, 10, 30045-30050.	4.0	49
114	High speed grinding characteristics and machinability of WC-10Co-4Cr coatings deposited via high velocity oxygen fuel spraying. Journal of Mechanical Science and Technology, 2018, 32, 3283-3290.	0.7	2
115	Fabrication of NiSe2 by direct selenylation of a nickel surface. Applied Surface Science, 2018, 428, 623-629.	3.1	33
116	Tribological Performance and Lubrication Mechanism of Alumina Nanoparticle Water-Based Suspensions in Ball-on-Three-Plate Testing. Tribology Letters, 2017, 65, 1.	1.2	56
117	On-surface manipulation of atom substitution between cobalt phthalocyanine and the Cu(111) substrate. RSC Advances, 2017, 7, 13827-13835.	1.7	40
118	Organic Phototransistors: Highâ€Performance Organic Heterojunction Phototransistors Based on Highly Ordered Copper Phthalocyanine/paraâ€Sexiphenyl Thin Films (Adv. Funct. Mater. 6/2017). Advanced Functional Materials, 2017, 27, .	7.8	1
119	Recent advances in micro- and nano-machining technologies. Frontiers of Mechanical Engineering, 2017, 12, 18-32.	2.5	75
120	Chiral Self-Assembly of Nonplanar 10,10â€²-Dibromo-9,9â€²-bianthryl Molecules on Ag(111). Langmuir, 2017, 33, 2993-2999.	1.6	15
121	Deformation, failure and removal mechanisms of thin film structures in abrasive machining. Advances in Manufacturing, 2017, 5, 1-19.	3.2	22
122	Fullerene (C60) interlayer modification on the electronic structure and the film growth of 2,7-diocty[1]benzothieno-[3,2-b]benzothiophene on SiO2. Synthetic Metals, 2017, 229, 1-6.	2.1	14
123	A comparative study on magnetorheological planarization using modified magnetic yokes and brick magnet. International Journal of Advanced Manufacturing Technology, 2017, 91, 2831-2841.	1.5	7
124	The effect of surface texture on the kinetic friction of a nanowire on a substrate. Scientific Reports, 2017, 7, 44907.	1.6	11
125	High-performance photodetectors based on CVD-grown high-quality SnS2 nanosheets. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	29
126	Metallo-Organic Ligand Designing Road for Constructing the First-Generation Dendritic Metallotriangle. Inorganic Chemistry, 2017, 56, 4065-4071.	1.9	13

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127	Preparation of nanoporous graphene oxide by nanocrystal-masked etching: toward a nacre-mimetic metalâ€“organic framework molecular sieving membrane. Journal of Materials Chemistry A, 2017, 5, 16255-16262.	5.2	42
128	Highâ€Performance Organic Heterojunction Phototransistors Based on Highly Ordered Copper Phthalocyanine/paraâ€Sexiphenyl Thin Films. Advanced Functional Materials, 2017, 27, 1604933.	7.8	64
129	Effects of monolayer Bi on the self-assembly of DBBA on Au(111). Surface Science, 2017, 665, 89-95.	0.8	30
130	Effects of surface defects on the mechanical properties of ZnO nanowires. Scientific Reports, 2017, 7, 9547.	1.6	33
131	Multilevel Nonvolatile Organic Photomemory Based on Vanadyl-Phthalocyanine/para-Sexiphenyl Heterojunctions. ACS Photonics, 2017, 4, 2573-2579.	3.2	68
132	High electrical conductivity of individual epitaxially grown MoO2 nanorods. Applied Physics Letters, 2017, 111, .	1.5	46
133	Allometric scaling of skin thickness, elasticity, viscoelasticity to mass for micro-medical device translation: from mice, rats, rabbits, pigs to humans. Scientific Reports, 2017, 7, 15885.	1.6	174
134	In situ sulfurization to generate Sb₂(Se_{1â€‰â^'â€‰x}S_x)₃ alloyed films and their application for photovoltaics. Progress in Photovoltaics: Research and Applications, 2017, 25, 113-122.	4.4	70
135	Van Der Waals Heterostructures between Small Organic Molecules and Layered Substrates. Crystals, 2016, 6, 113.	1.0	24
136	Eâ€™â€™ Raman Mode in Thermal Strain-Fractured CVD-MoS2. Crystals, 2016, 6, 151.	1.0	17
137	Controllable thin-film morphology and structure for 2,7-dioctyl[1]benzothieno[3,2- b][1]benzothiophene (C8BTBT) based organic field-effect transistors. Organic Electronics, 2016, 36, 73-81.	1.4	55
138	Characterising the material properties at the interface between skin and a skin vaccination microprojection device. Acta Biomaterialia, 2016, 36, 186-194.	4.1	18
139	Formulations for microprojection/microneedle vaccine delivery: Structure, strength and release profiles. Journal of Controlled Release, 2016, 225, 40-52.	4.8	74
140	Hollow Carbon Nanospheres with Extremely Small Size as Anode Material in Lithium-Ion Batteries with Outstanding Cycling Stability. Journal of Physical Chemistry C, 2016, 120, 3139-3144.	1.5	39
141	Competition between Hexagonal and Tetragonal Hexabromobenzene Packing on Au(111). ACS Nano, 2016, 10, 3198-3205.	7.3	32
142	Interlayer coupling of a direct van der Waals epitaxial MoS₂/graphene heterostructure. RSC Advances, 2016, 6, 323-330.	1.7	42
143	Surface integrity and removal mechanism of chemical mechanical grinding of silicon wafers using a newly developed wheel. International Journal of Advanced Manufacturing Technology, 2016, 83, 1231-1239.	1.5	8
144	Kinetic and static friction between alumina nanowires and a Si substrate characterized using a bending manipulation method. Journal of Materials Research, 2015, 30, 1852-1860.	1.2	15

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145	Fracture strength characterization of protective intermetallic coatings on AZ91E Mg alloys using FIB-machined microcantilever bending technique. Journal of Materials Research, 2015, 30, 1678-1685.	1.2	12
146	Investigation of the dynamic bending properties of MoS2 thin films by interference colours. Scientific Reports, 2015, 5, 18441.	1.6	10
147	Air-stable and high-performance organic field-effect transistors based on ordered, large-domain phthalocyanine copper thin film. Synthetic Metals, 2015, 210, 336-341.	2.1	34
148	Thickness-Dependent Air-Exposure-Induced Phase Transition of CuPc Ultrathin Films to Well-Ordered One-Dimensional Nanocrystals on Layered Substrates. Journal of Physical Chemistry C, 2015, 119, 4217-4223.	1.5	36
149	Efficient electron-blocking layer-free planar heterojunction perovskite solar cells with a high open-circuit voltage. Organic Electronics, 2015, 26, 265-272.	1.4	83
150	Effects of annealing on structure and composition of LSMO thin films. Physica B: Condensed Matter, 2015, 477, 14-19.	1.3	47
151	Crystal-Domain Orientation and Boundary in Highly Ordered Organic Semiconductor Thin Film. Journal of Physical Chemistry C, 2015, 119, 14965-14971.	1.5	33
152	Interfacial electronic structure at the CH3NH3PbI3/MoOx interface. Applied Physics Letters, 2015, 106, .	1.5	152
153	Strain rate dependence in the nanoindentation-induced deformation of Mg-Al intermetallic compounds produced by packed powder diffusion coating. Metals and Materials International, 2015, 21, 793-798.	1.8	3
154	Adsorption on epitaxial graphene on SiC(0001). Journal of Materials Research, 2014, 29, 447-458.	1.2	8
155	Incorporating Isolated Molybdenum (Mo) Atoms into Bilayer Epitaxial Graphene on 4H-SiC(0001). ACS Nano, 2014, 8, 970-976.	7.3	23
156	Scanning Tunneling Microscope and Photoemission Spectroscopy Investigations of Bismuth on Epitaxial Graphene on SiC(0001). Journal of Physical Chemistry C, 2014, 118, 24995-24999.	1.5	20
157	Controlled synthesis and optical properties of Cu/C core/shell nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	17
158	Determination of the energy release rate in the interfacial delamination of silicon nitride film on gallium arsenide substrate via nanoindentation. Journal of Materials Research, 2014, 29, 801-810.	1.2	16
159	Theoretical Prediction of Electronic Structure and Carrier Mobility in Single-walled MoS2 Nanotubes. Scientific Reports, 2014, 4, 4327.	1.6	58
160	Creep and Mechanical Properties of Cu6Sn5 and (Cu,Ni)6Sn5 at Elevated Temperatures. Journal of Electronic Materials, 2013, 42, 304-311.	1.0	28
161	Experimental Reorganization Energies of Pentacene and Perfluoropentacene: Effects of Perfluorination. Journal of Physical Chemistry C, 2013, 117, 22428-22437.	1.5	53
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