

Shi Jie Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

212
papers

6,156
citations

41
h-index

69
g-index

219
ext. papers

7,014
ext. citations

6.1
avg, IF

5.64
L-index

#	Paper	IF	Citations
212	Structure dependent and strain tunable magnetic ordering in ultrathin chromium telluride. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162223	5.7	2
211	Fatigue Enhancement of Ti-6Al-4V via Ex-situ Warm-Shot-Peening (WSP). <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 58-61	0.4	
210	Biomaterials by design: Harnessing data for future development. <i>Materials Today Bio</i> , 2021 , 12, 100165	9.9	3
209	A first principles study of uniaxial strain-stabilized long-range ferromagnetic ordering in electrenes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 16576-16580	7.1	1
208	Machine Learning-Driven Biomaterials Evolution. <i>Advanced Materials</i> , 2021 , e2102703	24	13
207	Internal photoemission of electrons from 2D semiconductor/3D metal barrier structures. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 295101	3	0
206	AgS monolayer: an ultrasoft inorganic Lieb lattice. <i>Nanoscale</i> , 2021 , 13, 14008-14015	7.7	1
205	Simultaneous Monitoring of Molecular Thin Film Morphology and Crystal Structure by X-ray Scattering. <i>Crystal Growth and Design</i> , 2020 , 20, 5269-5276	3.5	4
204	Fatigue life enhancement in alpha/beta Ti6Al4V after shot peening: An EBSD and TEM crystallographic orientation mapping study of surface layer. <i>Materialia</i> , 2020 , 12, 100813	3.2	11
203	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides. <i>Advanced Science</i> , 2020 , 7, 1902726	13.6	3
202	Large-scale monolayer molybdenum disulfide (MoS2) for mid-infrared photonics. <i>Nanophotonics</i> , 2020 , 9, 4703-4710	6.3	3
201	Transition-Metal Dichalcogenides: Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides (Adv. Sci. 10/2020). <i>Advanced Science</i> , 2020 , 7, 2070055	13.6	1
200	Origin of anomalous laminar cracking, volume expansion and weight increase of Ti2AlC MAX phase powders at 600 °C. <i>Corrosion Science</i> , 2020 , 164, 108349	6.8	1
199	High-throughput screening of transition metal single atom catalysts anchored on molybdenum disulfide for nitrogen fixation. <i>Nano Energy</i> , 2020 , 68, 104304	17.1	75
198	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 7964-7972	11.5	5
197	Memory Devices: MoS2/Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness (Adv. Mater. 42/2020). <i>Advanced Materials</i> , 2020 , 32, 2070317	24	1
196	MoS /Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness. <i>Advanced Materials</i> , 2020 , 32, e2002704	24	11

195	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS ₂ . <i>Nature Physics</i> , 2019 , 15, 347-351	16.2	68
194	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. <i>Advanced Science</i> , 2019 , 6, 1802093	13.6	14
193	Energy Band Alignment of a Monolayer MoS ₂ with SiO ₂ and Al ₂ O ₃ Insulators from Internal Photoemission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800616	1.6	9
192	Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System. <i>Advanced Science</i> , 2019 , 6, 1900446	13.6	3
191	Alleviating delamination of Ti ₂ AlC coating upon oxidation at 600 °C with heavy incorporation of TiC. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 536-546	5.7	7
190	Employing a Bifunctional Molybdate Precursor To Grow the Highly Crystalline MoS for High-Performance Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14239-14248	8.5	4
189	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS Layer. <i>Advanced Materials</i> , 2019 , 31, e1900776	24	40
188	Formation of two-dimensional small polarons at the conducting LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2019 , 100,	3.3	3
187	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019 , 10, 3149	17.4	20
186	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. <i>Nature Communications</i> , 2019 , 10, 3052	17.4	27
185	Excitons: Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System (Adv. Sci. 12/2019). <i>Advanced Science</i> , 2019 , 6, 1970073	13.6	2
184	Selective self-assembly of 2,3-diaminophenazine molecules on MoSe mirror twin boundaries. <i>Nature Communications</i> , 2019 , 10, 2847	17.4	17
183	Revealing the Grain Boundary Formation Mechanism and Kinetics during Polycrystalline MoS Growth. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46090-46100	9.5	17
182	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. <i>ACS Nano</i> , 2019 , 13, 14529-14539	16.7	5
181	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801160	4.6	63
180	Direct n- to p-Type Channel Conversion in Monolayer/Few-Layer WS Field-Effect Transistors by Atomic Nitrogen Treatment. <i>ACS Nano</i> , 2018 , 12, 2506-2513	16.7	67
179	Electronic properties of atomically thin MoS layers grown by physical vapour deposition: band structure and energy level alignment at layer/substrate interfaces.. <i>RSC Advances</i> , 2018 , 8, 7744-7752	3.7	15
178	Modification of Vapor Phase Concentrations in MoS Growth Using a NiO Foam Barrier. <i>ACS Nano</i> , 2018 , 12, 1339-1349	16.7	62

177	Probing the Ionic and Electrochemical Phenomena during Resistive Switching of NiO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8092-8101	9.5	16
176	Isothermal oxidation of the Ti ₂ AlC MAX phase coatings deposited by kerosene-fuelled HVOF spray. <i>Corrosion Science</i> , 2018 , 138, 266-274	6.8	11
175	Band alignment of 2D WS ₂ /HfO ₂ interfaces from x-ray photoelectron spectroscopy and first-principles calculations. <i>Applied Physics Letters</i> , 2018 , 112, 171604	3.4	12
174	Effects of oxygen and moisture on the I-V characteristics of TiO ₂ thin films. <i>Journal of Materiomics</i> , 2018 , 4, 228-237	6.7	9
173	3D heterostructured pure and N-Doped Ni ₃ S ₂ /VS ₂ nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , 2018 , 269, 55-61	6.7	91
172	Defect Evolution Enhanced Visible-Light Photocatalytic Activity in Nitrogen-Doped Anatase TiO ₂ Thin Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16600-16606	3.8	15
171	Demonstration of color display metasurfaces via immersion lithography on a 12-inch silicon wafer. <i>Optics Express</i> , 2018 , 26, 19548-19554	3.3	30
170	Hydrogen Evolution Catalyzed by a Molybdenum Sulfide Two-Dimensional Structure with Active Basal Planes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22042-22049	9.5	15
169	Kerosene-fuelled high velocity oxy-fuel (HVOF) spray of Ti ₂ AlC MAX phase powders. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 377-385	5.7	19
168	Interlayer interactions in 2D WS ₂ /MoS ₂ heterostructures monolithically grown by in situ physical vapor deposition. <i>Nanoscale</i> , 2018 , 10, 22927-22936	7.7	38
167	Local phenomena at grain boundaries: An alternative approach to grasp the role of oxygen vacancies in metallization of VO ₂ . <i>Journal of Materiomics</i> , 2018 , 4, 360-367	6.7	5
166	Oxygen electronic screening and hybridization determining the insulator-metal transition of Eu _{1-x} BaxTiO ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	1
165	Doubly Enhanced Second Harmonic Generation through Structural and Epsilon-near-Zero Resonances in TiN Nanostructures. <i>ACS Photonics</i> , 2018 , 5, 2087-2093	6.3	29
164	Impact and Origin of Interface States in MOS Capacitor with Monolayer MoS ₂ and HfO ₂ High-k Dielectric. <i>Scientific Reports</i> , 2017 , 7, 40669	4.9	61
163	Facile Synthesis of Vanadium-Doped NiS Nanowire Arrays as Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5959-5967	9.5	138
162	Au/Ni ₁₂ P ₅ core/shell single-crystal nanoparticles as oxygen evolution reaction catalyst. <i>Nano Research</i> , 2017 , 10, 3103-3112	10	41
161	Tuning Contact Barrier Height between Metals and MoS ₂ Monolayer through Interface Engineering. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700035	4.6	14
160	Effect of Surface Polishing Treatment on the Fatigue Performance of Shot-Peened Ti ₆ Al ₄ V Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017 , 30, 630-640	2.5	16

159	Pulsed laser deposition of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ thin film cathodes for low temperature solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2017 , 320, 344-348	4.4	8
158	Pulsed laser deposition of epitaxial MgO buffer layer for proton-conducting ceramic electrolytes. <i>Surface and Coatings Technology</i> , 2017 , 320, 339-343	4.4	7
157	Pressure induced topological phase transition in layered BiS. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29372-29380	3.6	12
156	Enhancing creep resistance of SnBi solder alloy with non-reactive nano fillers: A study using nanoindentation. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 498-506	5.7	13
155	Two-Dimensional C/TiO ₂ Heterogeneous Hybrid for Noble-Metal-Free Hydrogen Evolution. <i>ACS Catalysis</i> , 2017 , 7, 6892-6900	13.1	32
154	Tunable inverted gap in monolayer quasi-metallic MoS ₂ induced by strong charge-lattice coupling. <i>Nature Communications</i> , 2017 , 8, 486	17.4	55
153	In-situ growth of HfO ₂ on clean 2H-MoS ₂ surface: Growth mode, interface reactions and energy band alignment. <i>Applied Surface Science</i> , 2017 , 420, 523-534	6.7	4
152	Efficient coupling of a hierarchical V ₂ O ₅ @Ni ₃ S ₂ hybrid nanoarray for pseudocapacitors and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17954-17962	13	61
151	Plasmonic heating from indium nanoparticles on a floating microporous membrane for enhanced solar seawater desalination. <i>Nanoscale</i> , 2017 , 9, 12843-12849	7.7	61
150	Study of Line-Space Pitch Multiplication Using Graphoepitaxy Directed Self-Assembly for Semiconductor Applications. <i>Journal of Electronic Materials</i> , 2017 , 46, 4405-4413	1.9	1
149	Probing electrochemically induced resistive switching of TiO using SPM techniques. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31399-31409	3.6	8
148	Plasma spray of Ti ₂ AlC MAX phase powders: Effects of process parameters on coatings properties. <i>Surface and Coatings Technology</i> , 2017 , 325, 429-436	4.4	27
147	Synergistic effect of 2D Ti ₂ C and g-C ₃ N ₄ for efficient photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16748-16756	13	141
146	Layer-dependent semiconductor-metal transition of SnO/Si(001) heterostructure and device application. <i>Scientific Reports</i> , 2017 , 7, 2570	4.9	2
145	Electronic and optical properties of the monolayer group-IV monochalcogenides MX (M=Ge,Sn; X=S,Se,Te). <i>Physical Review B</i> , 2017 , 95,	3.3	129
144	Creep behavior of SnBi solder alloys at elevated temperatures studied by nanoindentation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4114-4124	2.1	16
143	Probing the oxidation behavior of Ti ₂ AlC MAX phase powders between 200 and 1000 °C. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 43-51	6	25
142	Nanoporous palladium anode for direct ethanol solid oxide fuel cells with nanoscale proton-conducting ceramic electrolyte. <i>Journal of Power Sources</i> , 2017 , 340, 98-103	8.9	21

141	Visible-Near-Infrared-Light-Driven Oxygen Evolution Reaction with Noble-Metal-Free WO ₃ -WO ₃ Hybrid Nanorods. <i>Langmuir</i> , 2016 , 32, 13046-13053	4	35
140	The stability of aluminium oxide monolayer and its interface with two-dimensional materials. <i>Scientific Reports</i> , 2016 , 6, 29221	4.9	39
139	Solution-Grown ZnO Films toward Transparent and Smart Dual-Color Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15482-8	9.5	22
138	Switching characteristics of TaO _x -based one diode-one resistor for crossbar memory application. <i>Electronic Materials Letters</i> , 2016 , 12, 365-370	2.9	4
137	Temperature-dependent microstructural evolution of Ti ₂ AlN thin films deposited by reactive magnetron sputtering. <i>Applied Surface Science</i> , 2016 , 368, 88-96	6.7	17
136	TiNbO ₂ -Based Photodetectors With Low Dark Current and High UV-to-Visible Rejection Ratio. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 837-840	2.2	2
135	Exciton energy recycling from ZnO defect levels: towards electrically driven hybrid quantum-dot white light-emitting-diodes. <i>Nanoscale</i> , 2016 , 8, 5835-41	7.7	12
134	Correlation of Electrochemical Effects and Resistive Switching in TiO ₂ Thin Films. <i>Journal of the Electrochemical Society</i> , 2016 , 163, E147-E153	3.9	4
133	Development of a highly transparent superamphiphobic plastic sheet by nanoparticle and chemical coating. <i>Journal of Colloid and Interface Science</i> , 2016 , 467, 245-252	9.3	10
132	Ultrafast and Robust UV Luminescence from Cu-Doped ZnO Nanowires Mediated by Plasmonic Hot Electrons. <i>Advanced Optical Materials</i> , 2016 , 4, 960-966	8.1	18
131	Proton-conducting Micro-solid Oxide Fuel Cells with Improved Cathode Reactions by a Nanoscale Thin Film Gadolinium-doped Ceria Interlayer. <i>Scientific Reports</i> , 2016 , 6, 22369	4.9	29
130	Empirical Formulae in Correlating Droplet Shape and Contact Angle. <i>Australian Journal of Chemistry</i> , 2016 , 69, 431	1.2	2
129	P-type Ge epitaxy on GaAs (100) substrate grown by MOCVD. <i>Applied Surface Science</i> , 2016 , 376, 236-240	6.7	7
128	Interfacial Interaction between HfO ₂ and MoS ₂ : From Thin Films to Monolayer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9804-9810	3.8	23
127	Oxidation of Single Crystalline Ti ₂ AlN Thin Films between 300 and 900 °C: A Perspective from Surface Analysis. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18520-18528	3.8	5
126	Photoluminescence: Ultrafast and Robust UV Luminescence from Cu-Doped ZnO Nanowires Mediated by Plasmonic Hot Electrons (Advanced Optical Materials 6/2016). <i>Advanced Optical Materials</i> , 2016 , 4, 959-959	8.1	1
125	Defect assisted coupling of a MoS ₂ /TiO ₂ interface and tuning of its electronic structure. <i>Nanotechnology</i> , 2016 , 27, 355203	3.4	18
124	Pulse laser deposition of epitaxial TiO ₂ thin films for high-performance ultraviolet photodetectors. <i>Applied Surface Science</i> , 2015 , 355, 398-402	6.7	20

123	High-yield synthesis and optical properties of g-C ₃ N ₄ . <i>Nanoscale</i> , 2015 , 7, 12343-50	7.7	208
122	Origin of Al Deficient Ti ₂ AlN and Pathways of Vacancy-Assisted Diffusion. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16606-16613	3.8	10
121	Manipulating Optical Properties of ZnO/Ga:ZnO Core-Shell Nanorods Via Spatially Tailoring Electronic Bandgap. <i>Advanced Optical Materials</i> , 2015 , 3, 1066-1071	8.1	5
120	Effect of interfacial coupling on photocatalytic performance of large scale MoS ₂ /TiO ₂ hetero-thin films. <i>Applied Physics Letters</i> , 2015 , 106, 081602	3.4	40
119	Large-scale two-dimensional MoS ₂ photodetectors by magnetron sputtering. <i>Optics Express</i> , 2015 , 23, 13580-6	3.3	74
118	Electrical oscillation in Pt/VO ₂ bilayer strips. <i>Journal of Applied Physics</i> , 2015 , 117, 064502	2.5	12
117	Graphene stabilized high- ϵ dielectric Y ₂ O ₃ (111) monolayers and their interfacial properties. <i>RSC Advances</i> , 2015 , 5, 83588-83593	3.7	14
116	Growth of wafer-scale MoS ₂ monolayer by magnetron sputtering. <i>Nanoscale</i> , 2015 , 7, 2497-503	7.7	182
115	Temperature dependence of photoluminescence spectra of bilayer two-dimensional electron gases in LaAlO ₃ /SrTiO ₃ superlattices: coexistence of Auger recombination and single-carrier trapping. <i>AIP Advances</i> , 2015 , 5, 067163	1.5	4
114	Correlation of the resistive switching and polarization switching in zinc oxide thin films using scanning probe microscopy techniques. <i>Journal of Materials Research</i> , 2015 , 30, 3431-3442	2.5	7
113	Transparent free-standing metamaterials and their applications in surface-enhanced Raman scattering. <i>Nanoscale</i> , 2014 , 6, 132-9	7.7	37
112	Atomic N Modified Rutile TiO ₂ (110) Surface Layer with Significant Visible Light Photoactivity. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 994-1000	3.8	26
111	Electrostatic Modulation of LaAlO ₃ /SrTiO ₃ Interface Transport in an Electric Double-Layer Transistor. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300001	4.6	68
110	Chemical stability study of nanoscale thin film yttria-doped barium cerate electrolyte for micro solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014 , 268, 804-809	8.9	27
109	Mechanism of insulator-to-metal transition in heavily Nb doped anatase TiO ₂ . <i>Materials Research Express</i> , 2014 , 1, 015911	1.7	9
108	The energy-band alignment at molybdenum disulphide and high-k dielectrics interfaces. <i>Applied Physics Letters</i> , 2014 , 104, 232110	3.4	46
107	Desorption of Al and Phase Transformation of Ti ₂ AlN MAX Thin Film upon Annealing in Ultra-High-Vacuum. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20927-20939	3.8	10
106	INVESTIGATION OF Ta/Ni/Al INTEGRATED FILM USED AS A DIFFUSION BARRIER LAYER BETWEEN Cu AND Si. <i>Surface Review and Letters</i> , 2014 , 21, 1450079	1.1	1

105	Near-infrared active metamaterials and their applications in tunable surface-enhanced Raman scattering. <i>Optics Express</i> , 2014 , 22, 2989-95	3.3	18
104	Tunable bilayer two-dimensional electron gas in LaAlO ₃ /SrTiO ₃ superlattices. <i>Applied Physics Letters</i> , 2014 , 105, 011603	3.4	14
103	Metamaterials-based label-free nanosensor for conformation and affinity biosensing. <i>ACS Nano</i> , 2013 , 7, 7583-91	16.7	82
102	Growth of single crystalline TaON on yttria-stabilized zirconia (YSZ). <i>Journal of Solid State Chemistry</i> , 2013 , 204, 27-31	3.3	14
101	Highly conductive and transparent aluminum-doped zinc oxide thin films deposited on polyethylene terephthalate substrates by pulsed laser deposition. <i>Thin Solid Films</i> , 2013 , 545, 285-290	2.2	9
100	Effect of oxygen stoichiometry on the insulator-metal phase transition in vanadium oxide thin films studied using optical pump-terahertz probe spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 151908	3.4	27
99	The resistive switching in TiO ₂ films studied by conductive atomic force microscopy and Kelvin probe force microscopy. <i>AIP Advances</i> , 2013 , 3, 082107	1.5	34
98	Low-temperature deposition of $\mu\text{c-Si:H}$ thin films by a low-frequency inductively coupled plasma for photovoltaic applications. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 215501	3	12
97	Creep behaviour of eutectic SnBi alloy and its constituent phases using nanoindentation technique. <i>Journal of Alloys and Compounds</i> , 2013 , 574, 98-103	5.7	40
96	Charge Distribution in the Single Crystalline Ti ₂ AlN Thin Films Grown on MgO(111) Substrates. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11656-11662	3.8	17
95	Interfacial Structure of Ti ₂ AlN Thin Films on MgO(111). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16515-16522	3.8	17
94	Orientation control of epitaxial Ge thin films growth on SrTiO ₃ (100) by ultrahigh vacuum sputtering. <i>Thin Solid Films</i> , 2012 , 520, 4880-4883	2.2	1
93	Tailoring Optical Properties of Silicon Nanowires by Au Nanostructure Decorations: Enhanced Raman Scattering and Photodetection. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4416-4422	3.8	47
92	Epitaxial growth of ZnO film on Si(1 1 1) with CeO ₂ (1 1 1) as buffer layer. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 415306	3	7
91	Interface Engineering in the High-k Dielectric Gate Stacks 2012 , 293-318		
90	Temperature-dependent exciton luminescence from an Au-nanopattern-coated ZnCdO film. <i>Europhysics Letters</i> , 2012 , 99, 27003	1.6	6
89	Ultrafast insulator-metal phase transition in vanadium dioxide studied using optical pump-terahertz probe spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 415604	1.8	12
88	Interfacial Properties of Silicon Nitride Grown on Epitaxial Graphene on 6H-SiC Substrate. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22315-22318	3.8	10

87	Symmetrical negative differential resistance behavior of a resistive switching device. <i>ACS Nano</i> , 2012 , 6, 2517-23	16.7	87
86	Electrochemically reduced single-layer MoS ₂ nanosheets: characterization, properties, and sensing applications. <i>Small</i> , 2012 , 8, 2264-70	11	333
85	Composition-tunable vertically aligned CdS(x)Se(1-x) nanowire arrays via van der Waals epitaxy: investigation of optical properties and photocatalytic behavior. <i>Advanced Materials</i> , 2012 , 24, 4151-6	24	65
84	TiO ₂ /(CdS, CdSe, CdSeS) Nanorod Heterostructures and Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11956-11963	3.8	224
83	Enhancement of bandgap emission of Pt-capped MgZnO films: important role of light extraction versus exciton-plasmon coupling. <i>Optics Express</i> , 2012 , 20, 14556-63	3.3	16
82	Photoluminescence characteristics of ZnCdO/ZnO single quantum well grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2011 , 98, 121903	3.4	17
81	Temperature dependence of weak localization effects of excitons in ZnCdO/ZnO single quantum well. <i>Journal of Applied Physics</i> , 2011 , 109, 113521	2.5	13
80	Nanoscale semiconductor-insulator-metal core/shell heterostructures: facile synthesis and light emission. <i>Nanoscale</i> , 2011 , 3, 3170-7	7.7	17
79	Activation of phosphorous doping in high quality ZnO thin film grown on Ytria-stabilized zirconia (1 1 1) by thermal treatment. <i>Thin Solid Films</i> , 2011 , 520, 994-998	2.2	4
78	Fabrication of a $\text{TiN}_x/\text{Ni}/\text{Au}$ Contact on ZnO Films With High Thermal Stability and Low Resistance. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 4297-4300	2.9	1
77	Vertically aligned cadmium chalcogenide nanowire arrays on muscovite mica: a demonstration of epitaxial growth strategy. <i>Nano Letters</i> , 2011 , 11, 3051-7	11.5	85
76	Flexible visible-infrared metamaterials and their applications in highly sensitive chemical and biological sensing. <i>Nano Letters</i> , 2011 , 11, 3232-8	11.5	186
75	Temperature dependent photoluminescence studies of ZnO thin film grown on (1 1 1) YSZ substrate. <i>Journal of Crystal Growth</i> , 2011 , 319, 8-12	1.6	15
74	Buffer-Layer-Assisted Epitaxial Growth of Perfectly Aligned Oxide Nanorod Arrays in Solution. <i>Crystal Growth and Design</i> , 2011 , 11, 4885-4891	3.5	17
73	Graphene on Bi_3N_4 : An ideal system for graphene-based electronics. <i>AIP Advances</i> , 2011 , 1, 032111	1.5	19
72	Examining the transparency of gallium-doped zinc oxide for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2400-2406	6.4	18
71	First-principles study of NiSi ₂ /HfO ₂ interfaces: energetics and Schottky-barrier heights. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 405302	3	
70	Role of oxygen for highly conducting and transparent gallium-doped zinc oxide electrode deposited at room temperature. <i>Applied Physics Letters</i> , 2011 , 98, 022106	3.4	41

69	Effects of nitrogen incorporation on the electronic structure of rutile-TiO ₂ . <i>Journal of Applied Physics</i> , 2011 , 109, 023707	2.5	10
68	Delayed onset of photochromism in molybdenum oxide films caused by photoinduced defect formation. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 055010	7.1	5
67	Ultraviolet light emission and excitonic fine structures in ultrathin single-crystalline indium oxide nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 031902	3.4	40
66	In situ photoemission spectroscopy study on formation of HfO ₂ dielectrics on epitaxial graphene on SiC substrate. <i>Applied Physics Letters</i> , 2010 , 96, 072111	3.4	12
65	Surface-plasmon enhancement of band gap emission from ZnCdO thin films by gold particles. <i>Applied Physics Letters</i> , 2010 , 97, 061104	3.4	14
64	Pulsed laser deposition of high-quality ZnCdO epilayers and ZnCdO/ZnO single quantum well on sapphire substrate. <i>Applied Physics Letters</i> , 2010 , 97, 061911	3.4	34
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