

Shi Jie Wang

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212
papers

6,156
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41
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g-index

219
ext. papers

7,014
ext. citations

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avg, IF

5.64
L-index

#	Paper	IF	Citations
212	Electrochemically reduced single-layer MoS ₂ nanosheets: characterization, properties, and sensing applications. <i>Small</i> , 2012 , 8, 2264-70	11	333
211	TiO ₂ /(CdS, CdSe, CdSeS) Nanorod Heterostructures and Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11956-11963	3.8	224
210	High-yield synthesis and optical properties of g-C ₃ N ₄ . <i>Nanoscale</i> , 2015 , 7, 12343-50	7.7	208
209	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. <i>Advanced Materials</i> , 2008 , 20, 3521-3527	24	200
208	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
207	Growth of wafer-scale MoS ₂ monolayer by magnetron sputtering. <i>Nanoscale</i> , 2015 , 7, 2497-503	7.7	182
206	Cu-Doped ZnO Nanoneedles and Nanonails: Morphological Evolution and Physical Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9579-9585	3.8	160
205	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
204	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
203	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
202	Controlling the Growth Mechanism of ZnO Nanowires by Selecting Catalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17500-17505	3.8	97
201	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
200	Symmetrical negative differential resistance behavior of a resistive switching device. <i>ACS Nano</i> , 2012 , 6, 2517-23	16.7	87
199	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
198	Metamaterials-based label-free nanosensor for conformation and affinity biosensing. <i>ACS Nano</i> , 2013 , 7, 7583-91	16.7	82
197	Density functional study on ferromagnetism in nitrogen-doped anatase TiO ₂ . <i>Applied Physics Letters</i> , 2009 , 95, 062505	3.4	81
196	Fabrication of Silicon Nanowires with Precise Diameter Control Using Metal Nanodot Arrays as a Hard Mask Blocking Material in Chemical Etching. <i>Chemistry of Materials</i> , 2010 , 22, 4111-4116	9.6	76

195	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
194	Large-scale two-dimensional MoS ₂ photodetectors by magnetron sputtering. <i>Optics Express</i> , 2015 , 23, 13580-6	3.3	74
193	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
192	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
191	Direct n- to p-Type Channel Conversion in Monolayer/Few-Layer WS ₂ Field-Effect Transistors by Atomic Nitrogen Treatment. <i>ACS Nano</i> , 2018 , 12, 2506-2513	16.7	67
190	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
189	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
188	Modification of Vapor Phase Concentrations in MoS ₂ Growth Using a NiO Foam Barrier. <i>ACS Nano</i> , 2018 , 12, 1339-1349	16.7	62
187	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
186	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
185	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
184	Growth of Cu ₂ O on Ga-doped ZnO and their interface energy alignment for thin film solar cells. <i>Journal of Applied Physics</i> , 2010 , 108, 033702	2.5	61
183	Impact of oxide defects on band offset at GeO ₂ /Ge interface. <i>Applied Physics Letters</i> , 2009 , 94, 142903	3.4	61
182	Effect of nitrogen doping on optical properties and electronic structures of SrTiO ₃ films. <i>Applied Physics Letters</i> , 2006 , 89, 231922	3.4	59
181	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
180	Epitaxial LaAlO ₃ thin film on silicon: Structure and electronic properties. <i>Applied Physics Letters</i> , 2007 , 90, 181925	3.4	54
179	Self-assembled shape- and orientation-controlled synthesis of nanoscale Cu ₃ Si triangles, squares, and wires. <i>Nano Letters</i> , 2008 , 8, 3205-10	11.5	50
178	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

177	Thermal behavior of localized surface plasmon resonance of Au@TiO ₂ core/shell nanoparticle arrays. <i>Applied Physics Letters</i> , 2007 , 90, 183117	3-4	47
176	The energy-band alignment at molybdenum disulphide and high-k dielectrics interfaces. <i>Applied Physics Letters</i> , 2014 , 104, 232110	3-4	46
175	Heteroepitaxial decoration of Ag nanoparticles on Si nanowires: a case study on Raman scattering and mapping. <i>Nano Letters</i> , 2010 , 10, 3940-7	11.5	46
174	Morphology-controlled synthesis and a comparative study of the physical properties of SnO ₂ nanostructures: from ultrathin nanowires to ultrawide nanobelts. <i>Nanotechnology</i> , 2009 , 20, 135605	3-4	46
173	Origin of XPS binding energy shifts in Ni clusters and atoms on rutile TiO ₂ surfaces. <i>Surface Science</i> , 2008 , 602, 2769-2773	1.8	44
172	Ferromagnetism in inhomogeneous Zn _{1-x} CoxO thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 063910	2.5	42
171	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
170	A template and catalyst-free metal-etching-oxidation method to synthesize aligned oxide nanowire arrays: NiO as an example. <i>ACS Nano</i> , 2010 , 4, 4785-91	16.7	41
169	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
168	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS Layer. <i>Advanced Materials</i> , 2019 , 31, e1900776	24	40
167	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
166	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
165	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
164	The stability of aluminium oxide monolayer and its interface with two-dimensional materials. <i>Scientific Reports</i> , 2016 , 6, 29221	4-9	39
163	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
162	Transparent free-standing metamaterials and their applications in surface-enhanced Raman scattering. <i>Nanoscale</i> , 2014 , 6, 132-9	7-7	37
161	Magnetic and electrical transport properties of Ge _{1-x} Mnx thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 103908	2.5	36
160	Visible-Near-Infrared-Light-Driven Oxygen Evolution Reaction with Noble-Metal-Free WO ₃ -WO ₂ Hybrid Nanorods. <i>Langmuir</i> , 2016 , 32, 13046-13053	4	35

159	Band alignment of yttrium oxide on various relaxed and strained semiconductor substrates. <i>Journal of Applied Physics</i> , 2008 , 103, 083702	2.5	35
158	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
157	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
156	Two-Dimensional C/TiO ₂ Heterogeneous Hybrid for Noble-Metal-Free Hydrogen Evolution. <i>ACS Catalysis</i> , 2017 , 7, 6892-6900	13.1	32
155	Electronic structure of germanium nitride considered for gate dielectrics. <i>Journal of Applied Physics</i> , 2007 , 102, 013507	2.5	32
154	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
153	X-ray photoelectron spectroscopy studies of nitridation on 4H-SiC (0001) surface by direct nitrogen atomic source. <i>Applied Physics Letters</i> , 2008 , 92, 092119	3.4	30
152	Influence of thin metal nanolayers on the photodetective properties of ZnO thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 083110	2.5	29
151	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
150	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
149	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
148	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
147	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
146	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
145	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
144	Band offsets of HfO ₂ /ZnO interface: In situ x-ray photoelectron spectroscopy measurement and ab initio calculation. <i>Applied Physics Letters</i> , 2009 , 95, 162104	3.4	26
143	High perpendicular coercive field of (100)-oriented CoFe ₂ O ₄ thin films on Si (100) with MgO buffer layer. <i>Journal of Applied Physics</i> , 2008 , 103, 013911	2.5	26
142	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

141	Effects of annealing on the valence band offsets between hafnium aluminate and silicon. <i>Journal of Applied Physics</i> , 2008 , 104, 063714	2.5	24
140	Electronic structures of $\text{Bi}_3\text{N}_4(0001)/\text{Si}(111)$ interfaces: Perfect bonding and dangling bond effects. <i>Journal of Applied Physics</i> , 2009 , 105, 024108	2.5	23
139	Enhanced low field magnetoresistance in nanocrystalline $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ synthesized on MgO nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 222501	3.4	23
138	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
137	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
136	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
135	Thermal stability of nitrogen-doped SrTiO_3 films: Electronic and optical properties studies. <i>Journal of Applied Physics</i> , 2007 , 101, 063708	2.5	21
134	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
133	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019 , 10, 3149	17.4	20
132	Self-Assembled In-Plane Growth of Mg_2SiO_4 Nanowires on Si Substrates Catalyzed by Au Nanoparticles. <i>Advanced Functional Materials</i> , 2010 , 20, 2511-2518	15.6	20
131	Band alignment and thermal stability of HfO_2 gate dielectric on SiC. <i>Applied Physics Letters</i> , 2008 , 93, 052104	3.4	20
130	Graphene on Bi_3N_4 : An ideal system for graphene-based electronics. <i>AIP Advances</i> , 2011 , 1, 032111	1.5	19
129	Kerosene-fuelled high velocity oxy-fuel (HVOF) spray of Ti_2AlC MAX phase powders. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 377-385	5.7	19
128	Near-infrared active metamaterials and their applications in tunable surface-enhanced Raman scattering. <i>Optics Express</i> , 2014 , 22, 2989-95	3.3	18
127	Shape-controlled fabrication of micro/nanoscale triangle, square, wire-like, and hexagon pits on silicon substrates induced by anisotropic diffusion and silicide sublimation. <i>ACS Nano</i> , 2010 , 4, 2901-9	16.7	18
126	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
125	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
124	Defect assisted coupling of $\text{a-MoS}_2/\text{TiO}_2$ interface and tuning of its electronic structure. <i>Nanotechnology</i> , 2016 , 27, 355203	3.4	18

123	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
122	Selective self-assembly of 2,3-diaminophenazine molecules on MoSe mirror twin boundaries. <i>Nature Communications</i> , 2019 , 10, 2847	17.4	17
121	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
120	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
119	Photoluminescence characteristics of ZnCdO/ZnO single quantum well grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2011 , 98, 121903	3.4	17
118	Nanoscale semiconductor-insulator-metal core/shell heterostructures: facile synthesis and light emission. <i>Nanoscale</i> , 2011 , 3, 3170-7	7.7	17
117	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
116	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
115	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
114	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
113	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
112	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
111	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
110	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
109	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
108	Interface properties of Ge ₃ N ₄ /Ge(111): Ab initio and x-ray photoemission spectroscopy study. <i>Applied Physics Letters</i> , 2008 , 93, 222907	3.4	15
107	Effect of antiphase boundaries on electrical transport properties of Fe ₃ O ₄ nanostructures. <i>Applied Physics Letters</i> , 2005 , 86, 252507	3.4	15
106	Tuning Contact Barrier Height between Metals and MoS ₂ Monolayer through Interface Engineering. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700035	4.6	14

105	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. <i>Advanced Science</i> , 2019 , 6, 1802093	13.6	14
104	Graphene stabilized high- ϵ dielectric Y2O3 (111) monolayers and their interfacial properties. <i>RSC Advances</i> , 2015 , 5, 83588-83593	3.7	14
103	Growth of single crystalline TaON on yttria-stabilized zirconia (YSZ). <i>Journal of Solid State Chemistry</i> , 2013 , 204, 27-31	3.3	14
102	Tunable bilayer two-dimensional electron gas in LaAlO3/SrTiO3 superlattices. <i>Applied Physics Letters</i> , 2014 , 105, 011603	3.4	14
101	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
100	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
99	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
98	Atomic and electronic structures at ZnO and ZrO2 interface for transparent thin-film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1731-1734	1.6	13
97	Machine Learning-Driven Biomaterials Evolution. <i>Advanced Materials</i> , 2021 , e2102703	24	13
96	Pressure induced topological phase transition in layered BiS. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29372-29380	3.6	12
95	Electrical oscillation in Pt/VO2 bilayer strips. <i>Journal of Applied Physics</i> , 2015 , 117, 064502	2.5	12
94	Band alignment of 2D WS2/HfO2 interfaces from x-ray photoelectron spectroscopy and first-principles calculations. <i>Applied Physics Letters</i> , 2018 , 112, 171604	3.4	12
93	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
92	Low-temperature deposition of μ 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
91	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
90	In situ photoemission spectroscopy study on formation of HfO2 dielectrics on epitaxial graphene on SiC substrate. <i>Applied Physics Letters</i> , 2010 , 96, 072111	3.4	12
89	Size Dependence of the 2p3/2 and 3d5/2 Binding Energy Shift of Ni Nanostructures: Skin-Depth Charge and Energy Trapping. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10939-10946	3.8	12
88	Growth studies of (2 2 0), (2 0 0) and (1 1 1) oriented MgO films on Si (0 0 1) without buffer layer. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 3678-3682	3	12

87	Fatigue life enhancement in alpha/beta Ti ₆ Al ₄ V after shot peening: An EBSD and TEM crystallographic orientation mapping study of surface layer. <i>Materialia</i> , 2020 , 12, 100813	3.2	11
86	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
85	Determination of atomic Ni interaction with TiO ₂ by XPS. <i>Surface and Interface Analysis</i> , 2010 , 42, 878-881	5	11
84	MoS ₂ /Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness. <i>Advanced Materials</i> , 2020 , 32, e2002704	24	11
83	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
82	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
81	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
80	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
79	Effects of nitrogen incorporation on the electronic structure of rutile-TiO ₂ . <i>Journal of Applied Physics</i> , 2011 , 109, 023707	2.5	10
78	Magnetic and transport properties of Ge:Mn granular system. <i>Thin Solid Films</i> , 2006 , 505, 54-56	2.2	10
77	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
76	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
75	Mechanism of insulator-to-metal transition in heavily Nb doped anatase TiO ₂ . <i>Materials Research Express</i> , 2014 , 1, 015911	1.7	9
74	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
73	Surface plasmon induced exciton redistribution in ZnCdO/ZnO coaxial multiquantum-well nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 081107	3.4	9
72	Ab initio study on intrinsic defect properties of germanium nitride considered for gate dielectric. <i>Applied Physics Letters</i> , 2007 , 91, 132906	3.4	9
71	Fabrication of nonspherical colloidal particles via reactive ion etching of surface-patterned colloidal crystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 277, 27-36	5.1	9
70	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

69	Probing electrochemically induced resistive switching of TiO using SPM techniques. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31399-31409	3.6	8
68	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
67	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
66	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
65	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
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