

Wei-Hua Tang

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.

348
papers

8,672
citations

45
h-index

75
g-index

359
ext. papers

10,252
ext. citations

4.1
avg, IF

6.18
L-index

#	Paper	IF	Citations
348	Field Plate-Adaptive Doping: A Novel Surface Electric Field Optimization Technique for SOI LDMOS With Gate Field Plate. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 291-297	2.9	
347	Enhancing the self-powered performance in VOx/Ga2O3 heterojunction ultraviolet photodetector by hole-transport engineering. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163801	5.7	5
346	Oxygen vacancies modulating self-powered photoresponse in PEDOT:PSS/EGa2O3 heterojunction by trapping effect. <i>Science China Technological Sciences</i> , 2022 , 65, 704	3.5	2
345	Enhancement-mode normally-off EGa2O3:Si metal-semiconductor field-effect deep-ultraviolet phototransistor. <i>Semiconductor Science and Technology</i> , 2022 , 37, 015001	1.8	2
344	Zn/Mg co-alloyed for higher photoelectric performance and unchanged spectral response in EGa2O3 solar-blind photodetector. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 035103	3	2
343	Ga2O3/Al2O3 Heterojunction Photovoltaic Photodetector With Superhigh Solar-Blind Spectral Discriminability. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	2
342	EGa2O3-Based Power Devices: A Concise Review. <i>Crystals</i> , 2022 , 12, 406	2.3	3
341	Solution-processed Y-doped SnSrO3 electron transport layer for Ga2O3 based heterojunction solar-blind photodetector with high sensitivity. <i>Vacuum</i> , 2022 , 201, 111064	3.7	5
340	A self-powered deep-ultraviolet photodetector based on a hybrid organic-inorganic p-P3HT/n-Ga2O3 heterostructure. <i>Physica Scripta</i> , 2022 , 97, 075804	2.6	1
339	A self-powered EGa2O3/CsCu2I3 heterojunction photodiode responding to deep ultraviolet irradiation. <i>Current Applied Physics</i> , 2021 ,	2.6	2
338	A Spiro-MeOTAD/GaO/Si p-i-n Junction Featuring Enhanced Self-Powered Solar-Blind Sensing via Balancing Absorption of Photons and Separation of Photogenerated Carriers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57619-57628	9.5	2
337	. <i>IEEE Sensors Journal</i> , 2021 , 21, 26724-26730	4	5
336	Ultrahigh Gain Solar Blind Avalanche Photodetector Using an Amorphous GaO-Based Heterojunction. <i>ACS Nano</i> , 2021 , 15, 16654-16663	16.7	8
335	Ti3C2/Ga2O3 Schottky Self-powered Solar-blind Photodetector with Robust Responsivity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 1-1	3.8	3
334	Broadband Ultraviolet Self-Powered Photodetector Constructed on Exfoliated GaO/CuI Core-Shell Microwire Heterojunction with Superior Reliability. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 447-454	6.4	39
333	Photoresponsive characteristics of EFG-grown iron-doped (100) Ga2O3 substrate with low dark current. <i>Physica Scripta</i> , 2021 , 96, 065801	2.6	6
332	Fabrication of a poly(N-vinyl carbazole)/Ga2O3 organic/inorganic heterojunction diode for solar-blind sensing applications. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 215104	3	5

331	Electrical Characterizations of Planar GaO Schottky Barrier Diodes. <i>Micromachines</i> , 2021 , 12,	3.3	3
330	Epitaxial Growth and Solar-Blind Photoelectric Characteristic of Ga ₂ O ₃ Film on Various Oriented Sapphire Substrates by Plasma-Enhanced Chemical Vapor Deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100076	1.6	1
329	High-responsivity solar-blind photodetector based on MOCVD-grown Si-doped Γ -Ga ₂ O ₃ thin film*. <i>Chinese Physics B</i> , 2021 , 30, 057301	1.2	4
328	A study for the influences of temperatures on ZnGa ₂ O ₄ films and solar-blind sensing performances. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 405107	3	5
327	Ultrahigh-performance planar Γ -Ga ₂ O ₃ solar-blind Schottky photodiode detectors. <i>Science China Technological Sciences</i> , 2021 , 64, 59-64	3.5	12
326	High sensitive and stable self-powered solar-blind photodetector based on solution-processed all inorganic CuMO ₂ /Ga ₂ O ₃ pn heterojunction. <i>Materials Today Physics</i> , 2021 , 17, 100335	8	41
325	Large bandgap tuning in corundum Al ₂ (O _{1-x} Sex) ₃ . <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7436-7443	7.1	
324	Self-powered solar-blind photodiodes based on EFG-grown (100)-dominant Γ -Ga ₂ O ₃ substrate*. <i>Chinese Physics B</i> , 2021 , 30, 017302	1.2	5
323	Solution Spin-Coated BiFeO ₃ onto Ga ₂ O ₃ towards Self-Powered Deep UV Photo Detector of Ga ₂ O ₃ /BiFeO ₃ Heterojunction. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	2
322	Enhanced deep-ultraviolet sensing by an all-inorganic p-PZT/n-Ga ₂ O ₃ thin-film heterojunction. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 195104	3	4
321	16 \times Linear Solar-Blind UV Photoconductive Detector Array Based on Γ -Ga ₂ O ₃ Film. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 3435-3438	2.9	11
320	p-GaSe/n-Ga ₂ O ₃ van der Waals Heterostructure Photodetector at Solar-Blind Wavelengths with Ultrahigh Responsivity and Detectivity. <i>ACS Photonics</i> , 2021 , 8, 2256-2264	6.3	9
319	A broadband UV-visible photodetector based on a Ga ₂ O ₃ /BFO heterojunction. <i>Physica Scripta</i> , 2021 , 96, 125823	2.6	4
318	High-sensitive, self-powered deep UV photodetector based on p-CuSCN/n-Ga ₂ O ₃ thin film heterojunction. <i>Optics Communications</i> , 2021 , 504, 127483	2	5
317	High-Performance Dual-Mode Solar-Blind Sensor of a Si-Doped Γ -Ga ₂ O ₃ Trench Schottky Photodiode. <i>IEEE Sensors Journal</i> , 2021 , 21, 18663-18669	4	8
316	Enhanced solar-blind photoresponse characteristics in Γ -Ga ₂ O ₃ epitaxial films on large miscut sapphire substrates. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160143	5.7	4
315	Oxygen vacancies modulating the photodetector performances in Γ -Ga ₂ O ₃ thin films. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5437-5444	7.1	21
314	Quasi-Epitaxial Growth of Γ -GaO-Coated Wide Band Gap Semiconductor Tape for Flexible UV Photodetectors.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	6

313	Fabrication and characterization of Mg-doped Ga_2O_3 solar-blind photodetector. <i>Vacuum</i> , 2020 , 177, 109425	3-7	18
312	All-Oxide $\text{NiO}/\text{Ga}_2\text{O}_3$ p-n Junction for Self-Powered UV Photodetector. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2032-2038	4	47
311	Tailoring the solar-blind photoresponse characteristics of Ga_2O_3 epitaxial films through lattice mismatch and crystal orientation. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 24LT01	3	9
310	Phase junction enhanced photocatalytic activity of GaO nanorod arrays on flexible glass fiber fabric.. <i>RSC Advances</i> , 2020 , 10, 11499-11506	3-7	3
309	Construction of a Ga_2O_3 -based metal-oxide-semiconductor-structured photodiode for high-performance dual-mode solar-blind detector applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5071-5081	7-1	31
308	Systematic investigation of the growth kinetics of Ga_2O_3 epilayer by plasma enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2020 , 116, 072102	3-4	39
307	Self-Powered Solar-Blind Photodetectors Based on p-n Phase Junction of Ga_2O_3 . <i>Physical Review Applied</i> , 2020 , 13,	4-3	55
306	High sensitivity and fast response self-powered solar-blind ultraviolet photodetector with a $\text{Ga}_2\text{O}_3/\text{spiro-MeOTAD}$ p-n heterojunction. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4502-4509	7-1	34
305	Fabrication of $\alpha\text{-Ga}_2\text{O}_3$ solar-blind photodetector with symmetric interdigital Schottky contacts responding to low intensity light signal. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 295109	3	23
304	X-ray photoelectron spectroscopy study for band alignments of $\text{BaTiO}_3/\text{Ga}_2\text{O}_3$ and $\text{In}_2\text{O}_3/\text{Ga}_2\text{O}_3$ heterostructures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 023202	2-9	7
303	The Effect of Mn Dopant on Structural and Optoelectronic Properties of Ga_2O_3 thin Film Photodetectors. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 055010	2	3
302	Self-Powered Ga_2O_3 Solar-Blind Photodetector Based on the Planar $\text{Au}/\text{Ga}_2\text{O}_3$ Schottky Junction. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 065011	2	12
301	Flexible and highly stable solar-blind photodetector based on room-temperature synthesis of amorphous Ga_2O_3 film. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 484004	3	5
300	A self-powered solar-blind photodetector with large Voc enhancing performance based on the PEDOT:PSS/ Ga_2O_3 organic-inorganic hybrid heterojunction. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1292-1300	7-1	45
299	Fe doping-stabilized Ga_2O_3 thin films with a high room temperature saturation magnetic moment. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 536-542	7-1	12
298	Designing strained $\text{C}_2\text{N}/\text{GaTe}(\text{InTe})$ heterostructures for photovoltaic and photocatalytic application. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152559	5-7	12
297	Comparison of optoelectrical characteristics between Schottky and Ohmic contacts to Ga_2O_3 thin film. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 085105	3	26
296	Ultrasensitive Flexible Solar-Blind Photodetectors Based on Graphene/Amorphous GaO van der Waals Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47714-47720	9-5	30

295	Investigations of monoclinic- and orthorhombic-based (BxGa1-x)2O3 alloys. <i>Applied Physics Letters</i> , 2020 , 117, 012104	3.4	8
294	Rectifying characteristics and solar-blind photoresponse in Ga2O3/ZnO heterojunctions. <i>Chinese Physics B</i> , 2019 , 28, 088503	1.2	3
293	Ultrasensitive, Superhigh Signal-to-Noise Ratio, Self-Powered Solar-Blind Photodetector Based on -GaO/-CuSCN Core-Shell Microwire Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35105-35114	9.5	91
292	Photoelectrochemical Self-Powered Solar-Blind Photodetectors Based on Ga2O3 Nanorod Array/Electrolyte Solid/Liquid Heterojunctions with a Large Separation Interface of Photogenerated Carriers. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6169-6177	5.6	41
291	Interfacial properties of two-dimensional graphene/ZrS2 and ScS2/ZrS2 contacts. <i>Applied Surface Science</i> , 2019 , 476, 778-788	6.7	4
290	Ga2O3 Nanorod Array/TiO2 Microsphere p-n Junctions for Self-Powered Spectrum-Distinguishable Photodetectors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4095-4103	5.6	58
289	Low driven voltage red LEDs using Eu-doped Ga2O3 films on GaAs. <i>Applied Physics Express</i> , 2019 , 12, 061009	2.4	5
288	Preliminary study for the effects of temperatures on optoelectrical properties of Ga2O3 thin films. <i>Vacuum</i> , 2019 , 166, 79-83	3.7	16
287	Band alignments of Ga2O3 with MgO, Al2O3 and MgAl2O4 measured by x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 295104	3	18
286	GaO nanorod arrays with high light-to-electron conversion for solar-blind deep ultraviolet photodetection.. <i>RSC Advances</i> , 2019 , 9, 6064-6069	3.7	13
285	Review of gallium oxide based field-effect transistors and Schottky barrier diodes. <i>Chinese Physics B</i> , 2019 , 28, 017105	1.2	39
284	Synthesis of free-standing Ga2O3 films for flexible devices by water etching of Sr3Al2O6 sacrificial layers. <i>Chinese Physics B</i> , 2019 , 28, 017305	1.2	3
283	Biaxial strain-induced strong enhancement of upconversion photoluminescence in lanthanide-doped ferroelectric thin films. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 234002	3	3
282	In situ synthesis of monoclinic Ga2O3 nanowires on flexible substrate and solar-blind photodetector. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 133-139	5.7	24
281	Energy-band alignments at ZnO/Ga2O3 and Ta2O5/Ga2O3 heterointerfaces by X-ray photoelectron spectroscopy and electron affinity rule. <i>Journal of Applied Physics</i> , 2019 , 126, 045707	2.5	22
280	Rectifying Effect of the Sr3Al2O6/Ga2O3 Heterojunction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900570	1.6	7
279	One-Step Growth of Amorphous/Crystalline GaO Phase Junctions for High-Performance Solar-Blind Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45922-45929	9.5	35
278	Single-layer graphene electrode enhanced sensitivity and response speed of Ga2O3 solar-blind photodetector. <i>Optical Materials Express</i> , 2019 , 9, 1394	2.6	4

277	Ultra-wide bandgap semiconductor of β -Ga ₂ O ₃ and its research progress of deep ultraviolet transparent electrode and solar-blind photodetector. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 078501	0.6	16
276	A high-performance ultraviolet solar-blind photodetector based on a β -Ga ₂ O ₃ Schottky photodiode. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13920-13929	7.1	50
275	Deep level acceptors of Zn-Mg divalent ions dopants in β -Ga ₂ O ₃ for the difficulty to p-type conductivity. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 299-303	5.7	20
274	Layer-dependent photoresponse of 2D MoS ₂ films prepared by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2522-2529	7.1	32
273	The electronic structure and magnetic property of the Mn doped β -Ga ₂ O ₃ . <i>Superlattices and Microstructures</i> , 2019 , 125, 330-337	2.8	8
272	The structure and magnetic properties of β -(Ga _{0.96} Mn _{0.04}) ₂ O ₃ thin film. <i>Journal of Semiconductors</i> , 2018 , 39, 053002	2.3	3
271	Electric field effects on the electronic and optical properties in C ₂ N/Sb van der Waals heterostructure. <i>Carbon</i> , 2018 , 129, 738-744	10.4	33
270	Arrays of Solar-Blind Ultraviolet Photodetector Based on β -Ga ₂ O ₃ Epitaxial Thin Films. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 993-996	2.2	42
269	Low-voltage-worked photodetector based on Cu ₂ O/GaOOH shell-core heterojunction nanorod arrays. <i>Journal of Alloys and Compounds</i> , 2018 , 755, 199-205	5.7	16
268	Stabilization and enhanced energy gap by Mg doping in β -phase Ga ₂ O ₃ thin films. <i>AIP Advances</i> , 2018 , 8, 025008	1.5	17
267	Stabilizing the metastable β -phase in Ga ₂ O ₃ thin films by Cu doping. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 1225-1229	5.7	18
266	Influence of annealing atmosphere on the performance of a β -Ga ₂ O ₃ thin film and photodetector. <i>Optical Materials Express</i> , 2018 , 8, 2229	2.6	37
265	Structure, morphology, and nonlinear optical properties of orthorhombic β -Ca(HCOO) ₂ single crystals. <i>Optical Materials Express</i> , 2018 , 8, 2238	2.6	2
264	Fabrication of cerium-doped β -Ga ₂ O ₃ epitaxial thin films and deep ultraviolet photodetectors. <i>Applied Optics</i> , 2018 , 57, 538-543	1.7	19
263	High-insulating β -Ga ₂ O ₃ thin films by doping with a valence controllable Fe element. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	5
262	Electrical and Optical Properties of In ₂ O ₃ Thin Films Deposited on Sapphire Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 1220-1223	1.3	2
261	Magnetic properties and crystal structure of Ga _{2-x} Fe _x O ₃ . <i>Powder Diffraction</i> , 2018 , 33, 195-201	1.8	4
260	Tin-assisted growth of β -Ga ₂ O ₃ film and the fabrication of photodetectors on sapphire substrate by PLD. <i>Optical Materials Express</i> , 2018 , 8, 3506	2.6	23

259	Strain Coupling and Dynamic Relaxation in a Molecular Perovskite-Like Multiferroic Metal-Organic Framework. <i>Advanced Functional Materials</i> , 2018 , 28, 1806013	15.6	19
258	Self-Powered Ultraviolet Photodetector with Superhigh Photoresponsivity (3.05 A/W) Based on the GaN/Sn:GaO pn Junction. <i>ACS Nano</i> , 2018 , 12, 12827-12835	16.7	254
257	Optimizing the performance of a β -Ga ₂ O ₃ solar-blind UV photodetector by compromising between photoabsorption and electric field distribution. <i>Optical Materials Express</i> , 2018 , 8, 2918	2.6	34
256	Optimization of Growth Temperature of β -Ga ₂ O ₃ Thin Films for Solar-Blind Photodetectors. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 3613-3618	1.3	18
255	Improvement for the performance of solar-blind photodetector based on β -Ga ₂ O ₃ thin films by doping Zn. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 085102	3	19
254	Fabrication of β -Ga ₂ O ₃ /ZnO heterojunction for solar-blind deep ultraviolet photodetection. <i>Semiconductor Science and Technology</i> , 2017 , 32, 03LT01	1.8	85
253	Growth and Characterization of Sn Doped β -Ga ₂ O ₃ Thin Films and Enhanced Performance in a Solar-Blind Photodetector. <i>Journal of Electronic Materials</i> , 2017 , 46, 2366-2372	1.9	31
252	Rectifying Characteristics and Semiconductor-Metal Transition Induced by Interfacial Potential in the MnCuN/n-Si Intermetallic Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12592-12600	2.5	1
251	Structural and photoelectrical properties of Ga ₂ O ₃ /SiC/Al ₂ O ₃ multilayers. <i>Journal of Alloys and Compounds</i> , 2017 , 717, 8-13	5.7	6
250	Direct charge carrier injection into Ga ₂ O ₃ thin films using an In ₂ O ₃ cathode buffer layer: their optical, electrical and surface state properties. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 135109	3	10
249	Zero-Power-Consumption Solar-Blind Photodetector Based on β -GaO/NSTO Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1619-1628	9.5	225
248	Impurity Compensation Effect Induced by Tin Valence Change in β -GaSnO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 983-988	9.5	15
247	Structural, optical and photoluminescence properties of Pr-doped β -Ga ₂ O ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 388-391	5.7	26
246	Construction of GaN/Ga ₂ O ₃ p-n junction for an extremely high responsivity self-powered UV photodetector. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10562-10570	7.1	149
245	Thickness Tuning Photoelectric Properties of β -Ga ₂ O ₃ Thin Film Based Photodetectors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 9091-9094	1.3	16
244	Mg-doped p-type β -Ga ₂ O ₃ thin film for solar-blind ultraviolet photodetector. <i>Materials Letters</i> , 2017 , 209, 558-561	3.3	62
243	Decrease of oxygen vacancy by Zn-doped for improving solar-blind photoelectric performance in β -Ga ₂ O ₃ thin films. <i>Electronic Materials Letters</i> , 2017 , 13, 483-488	2.9	34
242	Evidence for the bias-driven migration of oxygen vacancies in amorphous non-stoichiometric gallium oxide. <i>AIP Advances</i> , 2017 , 7, 065312	1.5	18

241	A self-powered deep-ultraviolet photodetector based on an epitaxial Ga ₂ O ₃ /Ga:ZnO heterojunction. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8688-8693	7.1	124
240	Fast assembly of Ag ₃ PO ₄ nanoparticles within three-dimensional graphene aerogels for efficient photocatalytic oxygen evolution from water splitting under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 666-672	21.8	66
239	Fast-response solar-blind ultraviolet photodetector with a graphene/EGa ₂ O ₃ /graphene hybrid structure. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 634-638	5.7	73
238	Epitaxial growth and characterization of CuGa ₂ O ₄ films by laser molecular beam epitaxy. <i>AIP Advances</i> , 2017 , 7, 115216	1.5	8
237	(AlGa) ₂ O ₃ solar-blind photodetectors on sapphire with wider bandgap and improved responsivity. <i>Optical Materials Express</i> , 2017 , 7, 1240	2.6	62
236	Comparison Study of β -Ga ₂ O ₃ Photodetectors on Bulk Substrate and Sapphire. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 3578-3583	2.9	55
235	Dual-band photodetector with a hybrid Au-nanoparticles/EGa ₂ O ₃ structure. <i>RSC Advances</i> , 2016 , 6, 66924-66929	3.7	17
234	Inhibition of unintentional extra carriers by Mn valence change for high insulating devices. <i>Scientific Reports</i> , 2016 , 6, 24190	4.9	37
233	Deep ultraviolet photodetectors based on p-Si/i-SiC/n-Ga ₂ O ₃ heterojunction by inserting thin SiC barrier layer. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	17
232	Characterization of hexagonal e-Ga _{1.8} Sn _{0.2} O ₃ thin films for solar-blind ultraviolet applications. <i>Optical Materials</i> , 2016 , 62, 651-654	3.3	21
231	Nonvolatile conductive filaments resistive switching behaviors in Ag/GaO _x /Nb:SrTiO ₃ /Ag structure. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	2
230	Enhanced Ga ₂ O ₃ /SiC ultraviolet photodetector with graphene top electrodes. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 247-251	5.7	72
229	Hydrothermal growth of ZnO nanowires scaffolds within mesoporous TiO ₂ photoanodes for dye-sensitized solar cells with enhanced efficiency. <i>Electrochimica Acta</i> , 2016 , 196, 348-356	6.7	30
228	TiO ₂ hollow spheres as light scattering centers in TiO ₂ photoanodes for dye-sensitized solar cells: the effect of sphere diameter. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 211-216	5.7	33
227	Epitaxial growth and solar-blind photoelectric properties of corundum-structured β -Ga ₂ O ₃ thin films. <i>Materials Letters</i> , 2016 , 164, 364-367	3.3	74
226	Growth and characterization of β -phase Ga _{2-x} Sn _x O ₃ thin films for solar-blind ultraviolet applications. <i>Semiconductor Science and Technology</i> , 2016 , 31, 065010	1.8	32
225	Deep ultraviolet photoconductive and near-infrared luminescence properties of Er ³⁺ -doped EGa ₂ O ₃ thin films. <i>Applied Physics Letters</i> , 2016 , 108, 211903	3.4	41
224	Influence of oxygen vacancies on the photoresponse of EGa ₂ O ₃ /SiC n -type heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 285111	3	38

223	Reversible transition between bipolar and unipolar resistive switching in Cu ₂ O/Ga ₂ O ₃ binary oxide stacked layer. <i>AIP Advances</i> , 2016 , 6, 015215	1.5	23
222	Epitaxial growth and magnetic properties of ultraviolet transparent Ga ₂ O ₃ /(Ga _{1-x} Fe _x) ₂ O ₃ multilayer thin films. <i>Scientific Reports</i> , 2016 , 6, 25166	4.9	21
221	Au plasmon enhanced high performance Ga ₂ O ₃ solar-blind photo-detector. <i>Progress in Natural Science: Materials International</i> , 2016 , 26, 65-68	3.6	30
220	Ga ₂ O ₃ /p-Si heterojunction solar-blind ultraviolet photodetector with enhanced photoelectric responsivity. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 136-140	5.7	169
219	Structural, magnetic and electrical transport properties of double perovskite Tb ₂ MnCoO ₆ . <i>Journal of Materials Research</i> , 2016 , 31, 1038-1045	2.5	5
218	Silver nanoparticles modified reduced graphene oxide wrapped Ag ₃ PO ₄ /TiO ₂ visible-light-active photocatalysts with superior performance. <i>RSC Advances</i> , 2016 , 6, 43697-43706	3.7	19
217	Solar-blind photodetector based on Ga ₂ O ₃ nanowires array film growth from inserted Al ₂ O ₃ ultrathin interlayers for improving responsivity. <i>RSC Advances</i> , 2016 , 6, 100683-100689	3.7	22
216	Composition tuning of rectifying polarity of colloidal CdS _{1-x} Se _x nanocrystal-based devices. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	1
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47	The early growth and interface of YBa ₂ Cu ₃ O _y thin films deposited on YSZ substrates. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 364-365, 356-359	1.3	1
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38	Enhanced initial epitaxy of YBa2Cu3Oy ultrathin films grown on YSZ substrates by using a new buffer layer of Nd2CuO4. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 330, 33-38	1.3	24
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34	Preparation and characterization of NdBa/sub 2/Cu/sub 3/O/sub y/ thin films. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 1590-1593	1.8	6
33	Compatibility of Nd and Ba in YBa/sub 2/Cu/sub 3/O/sub y/ superconductor. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 2113-2116	1.8	1
32	High resistivity of tetragonal Pr1+xBa2-xCu3Oy solid solution. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 315, 66-70	1.3	16
31	Comparison of Tc-depression of Pr at Y- and Ba-sites in YBa2Cu3Oy. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 315, 59-65	1.3	14
30	The relation between c-axis lattice parameter and superconducting transition temperature of NdBa2Cu3Oy thin films. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 313, 115-120	1.3	19
29	Site-Specific X-Ray Absorption of Twin-Free (105) YBa2Cu3O7-Films. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 579-582	1.3	2
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