

Madhu Bhaskaran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9249425/publications.pdf>

Version: 2024-02-01

194
papers

9,486
citations

34016

52
h-index

40881

93
g-index

199
all docs

199
docs citations

199
times ranked

12427
citing authors

#	ARTICLE	IF	CITATIONS
1	Elemental Analogues of Graphene: Silicene, Germanene, Stanene, and Phosphorene. <i>Small</i> , 2015, 11, 640-652.	5.2	725
2	Two-Dimensional Molybdenum Trioxide and Dichalcogenides. <i>Advanced Functional Materials</i> , 2013, 23, 3952-3970.	7.8	443
3	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide. <i>Advanced Materials</i> , 2013, 25, 109-114.	11.1	355
4	Flexible metasurfaces and metamaterials: A review of materials and fabrication processes at micro- and nano-scales. <i>Applied Physics Reviews</i> , 2015, 2, 011303.	5.5	303
5	Transition metal oxides – Thermoelectric properties. <i>Progress in Materials Science</i> , 2013, 58, 1443-1489.	16.0	302
6	Mechanically Tunable Dielectric Resonator Metasurfaces at Visible Frequencies. <i>ACS Nano</i> , 2016, 10, 133-141.	7.3	255
7	Atomically thin layers of MoS ₂ via a two step thermal evaporation–exfoliation method. <i>Nanoscale</i> , 2012, 4, 461-466.	2.8	254
8	Optically Stimulated Artificial Synapse Based on Layered Black Phosphorus. <i>Small</i> , 2019, 15, e1900966.	5.2	201
9	Dielectric resonator nanoantennas at visible frequencies. <i>Optics Express</i> , 2013, 21, 1344.	1.7	187
10	Ultrabroadband reflective polarization convertor for terahertz waves. <i>Applied Physics Letters</i> , 2014, 105, 181111.	1.5	186
11	Terahertz sensing of 7-nm dielectric film with bound states in the continuum metasurfaces. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	179
12	Metal-Loaded Dielectric Resonator Metasurfaces for Radiative Cooling. <i>Advanced Optical Materials</i> , 2017, 5, 1700460.	3.6	177
13	Elevated Temperature Anodized Nb ₂ O ₅ : A Photoanode Material with Exceptionally Large Photoconversion Efficiencies. <i>ACS Nano</i> , 2012, 6, 4045-4053.	7.3	174
14	Plasmon Resonances of Highly Doped Two-Dimensional MoS ₂ . <i>Nano Letters</i> , 2015, 15, 883-890.	4.5	167
15	Field Effect Biosensing Platform Based on 2D ±-MoO ₃ . <i>ACS Nano</i> , 2013, 7, 9753-9760.	7.3	161
16	Fully Light-Controlled Memory and Neuromorphic Computation in Layered Black Phosphorus. <i>Advanced Materials</i> , 2021, 33, e2004207.	11.1	147
17	Characterization of metal contacts for two-dimensional MoS ₂ nanoflakes. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	144
18	Mechanically tunable terahertz metamaterials. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	142

#	ARTICLE	IF	CITATIONS
19	Ambient Protection of Few-Layer Black Phosphorus via Sequestration of Reactive Oxygen Species. <i>Advanced Materials</i> , 2017, 29, 1700152.	11.1	141
20	Experimental demonstration of reflectarray antennas at terahertz frequencies. <i>Optics Express</i> , 2013, 21, 2875.	1.7	124
21	Black phosphorus: ambient degradation and strategies for protection. <i>2D Materials</i> , 2018, 5, 032001.	2.0	119
22	Active Control of Nanodielectric-Induced THz Quasi-BIC in Flexible Metasurfaces: A Platform for Modulation and Sensing. <i>Advanced Materials</i> , 2021, 33, e2100836.	11.1	117
23	Terahertz reflectarray as a polarizing beam splitter. <i>Optics Express</i> , 2014, 22, 16148.	1.7	111
24	Nanoscale Resistive Switching in Amorphous Perovskite Oxide (SrTiO_3) Memristors. <i>Advanced Functional Materials</i> , 2014, 24, 6741-6750.	7.8	111
25	Defining the role of humidity in the ambient degradation of few-layer black phosphorus. <i>2D Materials</i> , 2017, 4, 015025.	2.0	110
26	Sub-diffraction thin-film sensing with planar terahertz metamaterials. <i>Optics Express</i> , 2012, 20, 3345.	1.7	100
27	Ultrabroadband Plasmonic Absorber for Terahertz Waves. <i>Advanced Optical Materials</i> , 2015, 3, 376-380.	3.6	98
28	CNT/PDMS composite membranes for H ₂ and CH ₄ gas separation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10494-10501.	3.8	97
29	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019, 29, 1901991.	7.8	97
30	Degradation of black phosphorus is contingent on UV-blue light exposure. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	95
31	Second-Order Terahertz Bandpass Frequency Selective Surface With Miniaturized Elements. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 761-769.	2.0	92
32	In situ nanoindentation: Probing nanoscale multifunctionality. <i>Progress in Materials Science</i> , 2013, 58, 1-29.	16.0	90
33	Skin color-specific and spectrally-selective naked-eye dosimetry of UVA, B and C radiations. <i>Nature Communications</i> , 2018, 9, 3743.	5.8	89
34	Dielectrics for Terahertz Metasurfaces: Material Selection and Fabrication Techniques. <i>Advanced Optical Materials</i> , 2020, 8, 1900750.	3.6	84
35	Dielectric Resonator Reflectarray as High-Efficiency Nonuniform Terahertz Metasurface. <i>ACS Photonics</i> , 2016, 3, 1019-1026.	3.2	82
36	Metal-Free Air Transistors: Semiconductor-Free Field-Emission Air-Channel Nanoelectronics. <i>Nano Letters</i> , 2018, 18, 7478-7484.	4.5	76

#	ARTICLE	IF	CITATIONS
37	ZnO based thermopower wave sources. Chemical Communications, 2012, 48, 7462.	2.2	75
38	Plasmonic Resonance toward Terahertz Perfect Absorbers. ACS Photonics, 2014, 1, 625-630.	3.2	75
39	Sb ₂ Te ₃ and Bi ₂ Te ₃ based thermopower wave sources. Energy and Environmental Science, 2011, 4, 3558.	15.6	71
40	MnO ₂ -Based Thermopower Wave Sources with Exceptionally Large Output Voltages. Journal of Physical Chemistry C, 2013, 117, 9137-9142.	1.5	71
41	Elastomeric silicone substrates for terahertz fishnet metamaterials. Applied Physics Letters, 2012, 100, .	1.5	70
42	2D/3D Hybrid of MoS ₂ /GaN for a High-Performance Broadband Photodetector. ACS Applied Electronic Materials, 2021, 3, 2407-2414.	2.0	70
43	Donor-Induced Performance Tuning of Amorphous SrTiO ₃ Memristive Nanodevices: Multistate Resistive Switching and Mechanical Tunability. Advanced Functional Materials, 2015, 25, 3172-3182.	7.8	68
44	Transparent functional oxide stretchable electronics: micro-tectonics enabled high strain electrodes. NPG Asia Materials, 2013, 5, e62-e62.	3.8	67
45	Broadband Terahertz Circular Polarization Beam Splitter. Advanced Optical Materials, 2018, 6, 1700852.	3.6	64
46	Terahertz Magnetic Mirror Realized with Dielectric Resonator Antennas. Advanced Materials, 2015, 27, 7137-7144.	11.1	63
47	Insulator-metal transition in substrate-independent VO ₂ thin film for phase-change devices. Scientific Reports, 2017, 7, 17899.	1.6	63
48	Layered SAW gas sensor based on CSA synthesized polyaniline nanofiber on AlN on 64° YX LiNbO ₃ for H ₂ sensing. Sensors and Actuators B: Chemical, 2009, 138, 85-89.	4.0	60
49	Flexible terahertz metamaterials for dual-axis strain sensing. Optics Letters, 2013, 38, 2104.	1.7	59
50	Nanocomposite carbon-PDMS membranes for gas separation. Sensors and Actuators B: Chemical, 2012, 161, 982-988.	4.0	56
51	Stretchable and Tunable Microtectonic ZnO-Based Sensors and Photonics. Small, 2015, 11, 4532-4539.	5.2	54
52	Two-step synthesis of luminescent MoS ₂ -ZnS hybrid quantum dots. Nanoscale, 2015, 7, 16763-16772.	2.8	54
53	Engineering electrodeposited ZnO films and their memristive switching performance. Physical Chemistry Chemical Physics, 2013, 15, 10376.	1.3	52
54	UV Photochromism in Transition Metal Oxides and Hybrid Materials. Small, 2021, 17, e2100621.	5.2	51

#	ARTICLE	IF	CITATIONS
55	Large-area synthesis of 2D MoO ₃ for enhanced optoelectronic applications. 2D Materials, 2019, 6, 035031.	2.0	48
56	Strain response of stretchable micro-electrodes: Controlling sensitivity with serpentine designs and encapsulation. Applied Physics Letters, 2014, 104, 021908.	1.5	47
57	Strain Engineering of Wave-like Nanofibers for Dynamically Switchable Adhesive/Repulsive Surfaces. Advanced Functional Materials, 2016, 26, 399-407.	7.8	47
58	Dual Selective Gas Sensing Characteristics of 2D MoO ₃ via a Facile Transfer Process. ACS Applied Materials & Interfaces, 2019, 11, 40189-40195.	4.0	47
59	Reversible resistive switching behaviour in CVD grown, large area MoO ₃ . Nanoscale, 2018, 10, 19711-19719.	2.8	46
60	Ultra-wideband tri-layer transmissive linear polarization converter for terahertz waves. APL Photonics, 2020, 5, 046101.	3.0	46
61	Electrically Activated UV-A Filters Based on Electrochromic MoO ₃ . ACS Applied Materials & Interfaces, 2020, 12, 16997-17003.	4.0	45
62	Current Transport and Band Alignment Study of MoS ₂ /GaN and MoS ₂ /AlGaN Heterointerfaces for Broadband Photodetection Application. ACS Applied Electronic Materials, 2020, 2, 710-718.	2.0	43
63	Broadband and wide-angle reflective linear polarization converter for terahertz waves. APL Photonics, 2019, 4, 096104.	3.0	42
64	Artificial Somatosensors: Feedback Receptors for Electronic Skins. Advanced Intelligent Systems, 2020, 2, 2000094.	3.3	42
65	Influence of Electric Field on SERS: Frequency Effects, Intensity Changes, and Susceptible Bonds. Journal of the American Chemical Society, 2012, 134, 4646-4653.	6.6	41
66	Terahertz Reflectarrays and Nonuniform Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-18.	1.9	41
67	Acoustic Excitonic Coupling for Dynamic Photoluminescence Manipulation of Quasi-2D MoS ₂ Nanoflakes. Advanced Optical Materials, 2015, 3, 888-894.	3.6	39
68	Microstructure and dynamics of vacancy-induced nanofilamentary switching network in donor doped SrTiO ₃ memristors. Nanotechnology, 2016, 27, 505210.	1.3	39
69	Effects of plasma-treatment on the electrical and optoelectronic properties of layered black phosphorus. Applied Materials Today, 2018, 12, 244-249.	2.3	38
70	In situ micro-Raman analysis and X-ray diffraction of nickel silicide thin films on silicon. Micron, 2009, 40, 89-93.	1.1	37
71	Dielectric-resonator metasurfaces for broadband terahertz quarter- and half-wave mirrors. Optics Express, 2018, 26, 14392.	1.7	37
72	Nanoscale TiO ₂ dielectric resonator absorbers. Optics Letters, 2016, 41, 3391.	1.7	36

#	ARTICLE	IF	CITATIONS
73	A Photonic Switch Based on a Hybrid Combination of Metallic Nanoholes and Phase-change Vanadium Dioxide. Scientific Reports, 2018, 8, 11106.	1.6	33
74	High- Q Terahertz Absorber With Stable Angular Response. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 204-211.	2.0	33
75	Light driven growth of silver nanoplatelets on 2D MoS ₂ nanosheet templates. Journal of Materials Chemistry C, 2015, 3, 4771-4778.	2.7	32
76	Reduced impurity-driven defect states in anodized nanoporous Nb ₂ O ₅ : the possibility of improving performance of photoanodes. Chemical Communications, 2013, 49, 6349.	2.2	28
77	Broadband terahertz transmissive quarter-wave metasurface. APL Photonics, 2020, 5, .	3.0	28
78	The effect of post-deposition cooling rate on the orientation of piezoelectric (Pb _{0.92} Sr _{0.08})(Zr _{0.65} Ti _{0.35})O ₃ thin films deposited by RF magnetron sputtering. Semiconductor Science and Technology, 2006, 21, 1236-1243.	1.0	26
79	Alkali ratio control for lead-free piezoelectric thin films utilizing elemental diffusivities in RF plasma. CrystEngComm, 2013, 15, 7222.	1.3	26
80	Doped polymer for low-loss dielectric material in the terahertz range. Optical Materials Express, 2015, 5, 1373.	1.6	26
81	Fluorenyl-Conjugated Amine-ZnO Nanohybrids for the Selective Detection of CO ₂ Gas at Room Temperature. ACS Applied Nano Materials, 2018, 1, 6912-6921.	2.4	26
82	Measurement of high piezoelectric response of strontium-doped lead zirconate titanate thin films using a nanoindenter. Journal of Applied Physics, 2007, 101, 104910.	1.1	25
83	Polarization-dependent thin-film wire-grid reflectarray for terahertz waves. Applied Physics Letters, 2015, 107, .	1.5	25
84	Terahertz Localized Surface Plasmon Resonances in Coaxial Microcavities. Advanced Optical Materials, 2013, 1, 443-448.	3.6	24
85	Reductive exfoliation of substoichiometric MoS ₂ bilayers using hydrazine salts. Nanoscale, 2016, 8, 15252-15261.	2.8	24
86	Broadband Single-Mode Hybrid Photonic Crystal Waveguides for Terahertz Integration on a Chip. Advanced Materials Technologies, 2020, 5, 2000117.	3.0	24
87	Characterization of C54 titanium silicide thin films by spectroscopy, microscopy and diffraction. Journal Physics D: Applied Physics, 2007, 40, 5213-5219.	1.3	22
88	Nickel silicide thin films as masking and structural layers for silicon bulk micro-machining by potassium hydroxide wet etching. Journal of Micromechanics and Microengineering, 2008, 18, 095002.	1.5	22
89	Nanoscale Characterization of Energy Generation from Piezoelectric Thin Films. Advanced Functional Materials, 2011, 21, 2251-2257.	7.8	22
90	Influence of nano-graphite platelet concentration on onset of crystalline degradation in polylactide composites. Polymer Degradation and Stability, 2012, 97, 829-832.	2.7	22

#	ARTICLE	IF	CITATIONS
91	Terahertz Reflectarray with Enhanced Bandwidth. <i>Advanced Optical Materials</i> , 2019, 7, 1900791.	3.6	22
92	Dielectric Resonator Nanoantennas: A Review of the Theoretical Background, Design Examples, Prospects, and Challenges. <i>IEEE Antennas and Propagation Magazine</i> , 2017, 59, 30-42.	1.2	21
93	Inducing tunable switching behavior in a single memristor. <i>Applied Materials Today</i> , 2018, 11, 280-290.	2.3	21
94	Rapid and Selective Biomarker Detection with Conductometric Sensors. <i>Small</i> , 2021, 17, e2005582.	5.2	20
95	Ultra-wideband far-infrared absorber based on anisotropically etched doped silicon. <i>Optics Letters</i> , 2020, 45, 1196.	1.7	20
96	Spectral and angular characteristics of dielectric resonator metasurface at optical frequencies. <i>Applied Physics Letters</i> , 2014, 105, 191109.	1.5	19
97	Frequency-Selective-Surface-Based Mechanically Reconfigurable Terahertz Bandpass Filter. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2022, 12, 257-266.	2.0	19
98	Correlation between nanomechanical and piezoelectric properties of thin films: An experimental and finite element study. <i>Materials Letters</i> , 2013, 90, 148-151.	1.3	18
99	Mechanically Tunable High Refractive-Index Contrast TiO_2 -PDMS Gratings. <i>Advanced Optical Materials</i> , 2015, 3, 1565-1569.	3.6	18
100	Transparent amorphous strontium titanate resistive memories with transient photo-response. <i>Nanoscale</i> , 2017, 9, 14690-14702.	2.8	18
101	Terahertz near-field imaging of dielectric resonators. <i>Optics Express</i> , 2017, 25, 3756.	1.7	18
102	Wearable Label-Free Optical Biodetectors: Progress and Perspectives. <i>Advanced Photonics Research</i> , 2021, 2, 2000076.	1.7	18
103	Oxygen-deficient strontium titanate based stretchable resistive memories. <i>Applied Materials Today</i> , 2018, 13, 126-134.	2.3	17
104	In Situ Nanostructural Analysis of Volatile Threshold Switching and Non-Volatile Bipolar Resistive Switching in Mixed-Phase VO_x Asymmetric Crossbars. <i>Advanced Electronic Materials</i> , 2019, 5, 1900605.	2.6	17
105	Broadband light active MTCNQ-based metal-organic semiconducting hybrids for enhanced redox catalysis. <i>Applied Materials Today</i> , 2018, 13, 107-115.	2.3	16
106	Electron Emission Devices for Energy-Efficient Systems. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900039.	3.3	16
107	Phase change vanadium dioxide light sensors. <i>Applied Materials Today</i> , 2020, 21, 100833.	2.3	16
108	Terahertz transmissive half-wave metasurface with enhanced bandwidth. <i>Optics Letters</i> , 2021, 46, 4164.	1.7	16

#	ARTICLE	IF	CITATIONS
109	Mixed Ionic&Electronic Charge Transport in Layered Black&Phosphorus for Low&Power Memory. <i>Advanced Functional Materials</i> , 2022, 32, 2107068.	7.8	16
110	Generating strong room-temperature photoluminescence in black phosphorus using organic molecules. <i>2D Materials</i> , 2019, 6, 015009.	2.0	15
111	Elastomer-Based Pneumatic Switch for Radio Frequency Microdevices. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1410-1417.	1.7	14
112	Efficiency and Scalability of Dielectric Resonator Antennas at Optical Frequencies. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	1.0	14
113	Visible&Blind UV Imaging with Oxygen&Deficient Zinc Oxide Flexible Devices. <i>Advanced Electronic Materials</i> , 2015, 1, 1500264.	2.6	14
114	Two-dimensional MoO ₃ via a top-down chemical thinning route. <i>2D Materials</i> , 2017, 4, 035008.	2.0	14
115	Monocrystalline Antimonene Nanosheets via Physical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001678.	1.9	14
116	Black Phosphorus Nanoflakes Vertically Stacked on MoS ₂ Nanoflakes as Heterostructures for Photodetection. <i>ACS Applied Nano Materials</i> , 2021, 4, 6928-6935.	2.4	14
117	Nanoscale electro-mechanical dynamics of nano-crystalline platinum thin films: An <i>in situ</i> electrical nanoindentation study. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	13
118	Solution-processable do-it-yourself switching devices (DIY devices) based on CuTCNQ metal-organic semiconductors. <i>Applied Materials Today</i> , 2018, 10, 12-17.	2.3	13
119	Time and rate dependent synaptic learning in neuro-mimicking resistive memories. <i>Scientific Reports</i> , 2019, 9, 15404.	1.6	13
120	Accurate Estimation of Low $(\approx 10^{-8} \text{ } \Omega \cdot \text{cm}^2)$ Values of Specific Contact Resistivity. <i>IEEE Electron Device Letters</i> , 2008, 29, 259-261.	2.2	12
121	Analytical and Finite-Element Modeling of a Cross Kelvin Resistor Test Structure for Low Specific Contact Resistivity. <i>IEEE Transactions on Electron Devices</i> , 2009, 56, 2250-2254.	1.6	12
122	Influence of oxygen partial pressure on the composition and orientation of strontium-doped lead zirconate titanate thin films. <i>Micron</i> , 2009, 40, 104-108.	1.1	12
123	Nanoindentation response of piezoelectric nano-islands. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	12
124	Influence of Temperature on Photodetection Properties of Honeycomb&Like GaN Nanostructures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100593.	1.9	12
125	Effect of multi-layered bottom electrodes on the orientation of strontium-doped lead zirconate titanate thin films. <i>Thin Solid Films</i> , 2008, 516, 8101-8105.	0.8	11
126	Dual harmonic Kelvin probe force microscopy for surface potential measurements of ferroelectrics. , 2012, , .		11

#	ARTICLE	IF	CITATIONS
127	Electric field induced surface-enhanced Raman spectroscopy for multianalyte detection. Physical Chemistry Chemical Physics, 2015, 17, 7095-7099.	1.3	11
128	Composition analysis of nickel silicide formed from evaporated and sputtered nickel for microsystem devices. Electronics Letters, 2007, 43, 479.	0.5	10
129	Thin film piezoelectric response characterisation using atomic force microscopy with standard contact mode imaging. Micron, 2009, 40, 109-113.	1.1	9
130	Low-temperature deposition of high-response piezoelectric thin films. Scripta Materialia, 2010, 63, 189-191.	2.6	9
131	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide (Adv. Mater.) Tj ETQq1 1.0.784314 rgBT / Over	11.1	9
132	Differential Work-Function Enabled Bifunctional Switching in Strontium Titanate Flexible Resistive Memories. ACS Applied Materials & Interfaces, 2020, 12, 7326-7333.	4.0	9
133	Nicotine Sensors for Wearable Battery-Free Monitoring of Vaping. ACS Sensors, 2022, 7, 82-88.	4.0	9
134	Characterisation of nickel silicide thin films by spectroscopy and microscopy techniques. Micron, 2009, 40, 99-103.	1.1	8
135	Flexible bi-layer terahertz chiral metamaterials. Journal of Optics (United Kingdom), 2015, 17, 085101.	1.0	8
136	Microstructural investigation of nickel silicide thin films and the silicide-silicon interface using transmission electron microscopy. Micron, 2009, 40, 11-14.	1.1	7
137	Microstructural and Compositional Analysis of Strontium-Doped Lead Zirconate Titanate Thin Films on Gold-Coated Silicon Substrates. Microscopy and Microanalysis, 2009, 15, 30-35.	0.2	7
138	Lattice Guiding for Low Temperature Crystallization of Rhombohedral Perovskite-Structured Oxide Thin Films. Crystal Growth and Design, 2010, 10, 761-764.	1.4	7
139	Terahertz and optical Dielectric Resonator Antennas: Potential and challenges for efficient designs. , 2016, , .		7
140	Patterning of PLZT and PSZT thin films by excimer laser. Applied Physics A: Materials Science and Processing, 2008, 91, 679-684.	1.1	6
141	Semiconductors: Two-Dimensional Molybdenum Trioxide and Dichalcogenides (Adv. Funct. Mater.) Tj ETQq1 1.0.784314 rgBT / Over	7.8	6
142	Terahertz bandpass frequency selective surface with improved out-of-band response. , 2015, , .		6
143	Synthesis of Self-Assembled Island-Structured Complex Oxide Dielectric Films. Journal of Physical Chemistry C, 2009, 113, 16610-16614.	1.5	5
144	Interfacial Resistive Properties of Nickel Silicide Thin Films to Doped Silicon. Journal of the Electrochemical Society, 2010, 157, H842.	1.3	5

#	ARTICLE	IF	CITATIONS
145	Surface Morphology Induced Localized Electric Field and Piezoresponse Enhancement in Nanostructured Thin Films. ACS Nano, 2011, 5, 1067-1072.	7.3	5
146	Device Geometry Insights for Efficient Electrically Driven Insulatorâ€¦toâ€¦Metal Transition in Vanadium Dioxide Thinâ€¦Films. Advanced Electronic Materials, 2022, 8, 2100428.	2.6	5
147	Investigation of surface crystallites on C54 titanium silicide thin films using transmission electron microscopy. Semiconductor Science and Technology, 2008, 23, 035021.	1.0	4
148	Data related to the nanoscale structural and compositional evolution in resistance change memories. Data in Brief, 2018, 21, 18-24.	0.5	4
149	Amorphous Metal Oxide Bilayers to Avoid Sneakâ€¦Path Currents for Highâ€¦Density Resistive Memory Arrays. Advanced Intelligent Systems, 2021, 3, 2000222.	3.3	4
150	RF magnetron sputtered perovskite-oriented PSZT thin films on gold for piezoelectric and ferroelectric transducers. Electronics Letters, 2006, 42, 244.	0.5	3
151	Nickel silicide and titanium silicide formation: a comparison. , 2006, , .		3
152	Nanocolumnar Preferentially Oriented PSZT Thin Films Deposited on Thermally Grown Silicon Dioxide. Nanoscale Research Letters, 2009, 4, 29-33.	3.1	3
153	Large area metal-silicone flexible electronic structures. , 2010, , .		3
154	Strain-resistance relationship in gold conductors for elastomeric-based flexible devices. Proceedings of SPIE, 2011, , .	0.8	3
155	Design and implementation of terahertz reflectarray. , 2012, , .		3
156	Lattice guiding for sputter deposition of single domain (Sr _{0.6} Ba _{0.4})Nb ₂ O ₆ ferroelectric thin films. CrystEngComm, 2012, 14, 359-361.	1.3	3
157	Black Phosphorusâ€¦Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. Advanced Photonics Research, 2021, 2, 2100150.	1.7	3
158	Particle tracking simulation of an air channel transistor. AIP Advances, 2021, 11, .	0.6	2
159	In situ investigation of thermally influenced phase transformations in (pb _{0.92} sr _{0.08}) (zr _{0.65} ti _{0.35})o ₃ thin films using micro-raman spectroscopy and x-ray diffraction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 241-245.	1.7	1
160	Reversal and pinning of Curie point transformations in thin film piezoelectrics. CrystEngComm, 2011, 13, 1280-1282.	1.3	1
161	Microengineered structures for rapid automatic loading of optical fibre segments. Journal of Micromechanics and Microengineering, 2011, 21, 095010.	1.5	1
162	Design and analysis of a metasurface for supporting spoof surface plasmon polaritons. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
163	Broadband plasmonic terahertz absorber based on silicon cross structures. , 2014, , .		1
164	Broadband terahertz reflective linear polarization convertor. , 2014, , .		1
165	Passive electric monopole array for terahertz surface wave launcher. , 2015, , .		1
166	Semiconductor-Free Field-Emission Nanoelectronics: Application in Air-Channel Transistors. , 2019, , .		1
167	Charge injection in vertically stacked multi-layer black phosphorus. Applied Materials Today, 2020, 18, 100481.	2.3	1
168	Artificial Somatosensors: Feedback Receptors for Electronic Skins. Advanced Intelligent Systems, 2020, 2, 2070106.	3.3	1
169	Specific contact resistivity of Al-NiSi contacts using Cross Kelvin Resistor test structure chains. , 2005, 6035, 250.		0
170	RF magnetron sputter deposition and analysis of strontium-doped lead zirconate titanate thin films. , 2005, , .		0
171	Surface morphology and stress analysis of piezoelectric strontium-doped lead zirconate titanate thin films. , 2006, , .		0
172	Orientation Dependence of Strontium-doped Lead Zirconate Titanate (PSZT) Thin Films on RF Magnetron Sputtering Conditions. Materials Research Society Symposia Proceedings, 2006, 928, 1.	0.1	0
173	UV Laser Ablation of PLZT and PSZT Films. Materials Research Society Symposia Proceedings, 2008, 1075, 1.	0.1	0
174	Interfacial Resistive Properties of Multi-layered Silicon-based Ohmic Contacts. Materials Research Society Symposia Proceedings, 2010, 1249, 1.	0.1	0
175	Island Structured Dielectric Thin Films by Scalable Self-Assembly. Materials Research Society Symposia Proceedings, 2010, 1253, 29.	0.1	0
176	Piezoelectric thin film deposition: Self-assembled island structures and low temperature processing. , 2010, , .		0
177	Nanoscale energy generation characteristics of piezoelectric thin films. , 2010, , .		0
178	Energy Materials: Nanoscale Characterization of Energy Generation from Piezoelectric Thin Films (Adv. Funct. Mater. 12/2011). Advanced Functional Materials, 2011, 21, 2165-2165.	7.8	0
179	Planar terahertz metamaterials for strain sensing. , 2012, , .		0
180	Comparison between an optical dielectric resonator nano-antenna reflectarray and an equivalent dielectric grating reflector. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
181	Dielectric hole lattice for terahertz diffractive optics with high transmission. , 2014, , .		0
182	ZnO: Stretchable and Tunable Microtectonic ZnO-Based Sensors and Photonics (Small 35/2015). Small, 2015, 11, 4414-4414.	5.2	0
183	Modified elastomeric polymers for loss reduction in the terahertz range. , 2015, , .		0
184	Efficient terahertz reflectarray based on dielectric resonator antennas. , 2016, , .		0
185	Near-field imaging of magnetic resonance in terahertz dielectric resonator antennas. , 2016, , .		0
186	Fabrication of micro-scale single-crystal silicon structures for efficient terahertz magnetic mirror. , 2016, , .		0
187	Silicon terahertz resonators. , 2016, , .		0
188	Metallic and dielectric resonators in broadband half-wave mirrors for terahertz frequencies. , 2018, , .		0
189	Broadband and wide-angle terahertz reflective half-wave mirror. , 2019, , .		0
190	Fabrication of Broadband Absorbers for the Far-Infrared Spectral Range. , 2019, , .		0
191	Selected Peer-Reviewed Articles from 13th International Meeting on Chemical Sensors (IMCS-13). Sensor Letters, 2011, 9, 584-586.	0.4	0
192	Squeezing crystals and making waves: paving the way to self -powered electronics. Proceedings of the Royal Society of Victoria, 2014, 126, 49.	0.3	0
193	Mechanically Tunable Thin Film High Refractive Index Contrast TiO ₂ “Gratings in Elastomeric Matrix. , 2015, , .		0
194	Terahertz Integrated Photonic Chip based on Metal/Dielectric Hybrid Waveguide. , 2020, , .		0