

# Shriram Ramanathan

## List of Publications by Year in descending order

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146  
papers

7,535  
citations

57631

44  
h-index

54797

84  
g-index

148  
all docs

148  
docs citations

148  
times ranked

7899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxide Electronics Utilizing Ultrafast Metal-Insulator Transitions. Annual Review of Materials Research, 2011, 41, 337-367.	4.3	818
2	Ultra-thin perfect absorber employing a tunable phase change material. Applied Physics Letters, 2012, 101, .	1.5	519
3	Strongly correlated perovskite fuel cells. Nature, 2016, 534, 231-234.	13.7	387
4	Adaptive oxide electronics: A review. Journal of Applied Physics, 2011, 110, .	1.1	268
5	Mott Memory and Neuromorphic Devices. Proceedings of the IEEE, 2015, 103, 1289-1310.	16.4	264
6	Colossal resistance switching and band gap modulation in a perovskite nickelate by electron doping. Nature Communications, 2014, 5, 4860.	5.8	227
7	Voltage-Triggered Ultrafast Phase Transition in Vanadium Dioxide Switches. IEEE Electron Device Letters, 2013, 34, 220-222.	2.2	225
8	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. Nano Letters, 2016, 16, 1050-1055.	4.5	186
9	Thermal conductivity and dynamic heat capacity across the metal-insulator transition in thin film VO <sub>2</sub> . Applied Physics Letters, 2010, 96, .	1.5	178
10	Perovskite nickelates as electric-field sensors in salt water. Nature, 2018, 553, 68-72.	13.7	146
11	Origins of bad-metal conductivity and the insulatorâ€metal transition in the rare-earth nickelates. Nature Physics, 2014, 10, 304-307.	6.5	143
12	Three-terminal field effect devices utilizing thin film vanadium oxide as the channel layer. Journal of Applied Physics, 2010, 107, .	1.1	142
13	On the Optical Properties of Thinâ€Film Vanadium Dioxide from the Visible to the Far Infrared. Annalen Der Physik, 2019, 531, 1900188.	0.9	135
14	Hall carrier density and magnetoresistance measurements in thin-film vanadium dioxide across the metal-insulator transition. Physical Review B, 2009, 79, .	1.1	129
15	Nanoscale imaging and control of resistance switching in VO <sub>2</sub> at room temperature. Applied Physics Letters, 2010, 96, .	1.5	120
16	On the triggering mechanism for the metalâ€insulator transition in thin film VO <sub>2</sub> devices: electric field versus thermal effects. Journal of Materials Science, 2009, 44, 5345-5353.	1.7	101
17	Dynamic control of light emission faster than the lifetime limit using VO <sub>2</sub> phase-change. Nature Communications, 2015, 6, 8636.	5.8	101
18	Correlated Electron Materials and Field Effect Transistors for Logic: A Review. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 286-317.	6.8	100

#	ARTICLE	IF	CITATIONS
19	Correlation between metal-insulator transition characteristics and electronic structure changes in vanadium oxide thin films. <i>Physical Review B</i> , 2008, 77, .	1.1	97
20	Electrical switching dynamics and broadband microwave characteristics of VO <sub>2</sub> radio frequency devices. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	95
21	Electrical triggering of metal-insulator transition in nanoscale vanadium oxide junctions. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	93
22	Reconfigurable perovskite nickelate electronics for artificial intelligence. <i>Science</i> , 2022, 375, 533-539.	6.0	93
23	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. <i>Physical Review Applied</i> , 2017, 7, .	1.5	88
24	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. <i>Physical Review Applied</i> , 2017, 8, .	1.5	88
25	Habituation based synaptic plasticity and organismic learning in a quantum perovskite. <i>Nature Communications</i> , 2017, 8, 240.	5.8	84
26	Tunable Mie-Resonant Dielectric Metasurfaces Based on VO <sub>2</sub> Phase-Transition Materials. <i>ACS Photonics</i> , 2021, 8, 1206-1213.	3.2	80
27	X-ray absorption spectroscopy of vanadium dioxide thin films across the phase-transition boundary. <i>Physical Review B</i> , 2007, 75, .	1.1	79
28	VO <sub>2</sub> nanophotonics. <i>APL Photonics</i> , 2020, 5, .	3.0	77
29	Correlated Perovskites as a New Platform for Superbroadband Tunable Photonics. <i>Advanced Materials</i> , 2016, 28, 9117-9125.	11.1	72
30	Low temperature thin film solid oxide fuel cells with nanoporous ruthenium anodes for direct methane operation. <i>Energy and Environmental Science</i> , 2011, 4, 3473.	15.6	71
31	Carrier localization in perovskite nickelates from oxygen vacancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21992-21997.	3.3	71
32	Relaxation dynamics of ionic liquid-VO <sub>2</sub> interfaces and influence in electric double-layer transistors. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	69
33	Temperature-independent thermal radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26402-26406.	3.3	69
34	Nanoscale Compositionally Graded Thin-Film Electrolyte Membranes for Low-Temperature Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2012, 2, 656-661.	10.2	66
35	Studies on electric triggering of the metal-insulator transition in VO <sub>2</sub> thin films between 77 K and 300 K. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	62
36	Orbital splitting and optical conductivity of the insulating state of $\text{NbO}_2$ . <i>Physical Review B</i> , 2014, 90, .	1.1	59

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37	Hall effect measurements on epitaxial SmNiO <sub>3</sub> thin films and implications for antiferromagnetism. Physical Review B, 2013, 87, .	1.1	55
38	Strongly correlated perovskite lithium ion shuttles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9672-9677.	3.3	55
39	Studies on room-temperature electric-field effect in ionic-liquid gated VO <sub>2</sub> three-terminal devices. Journal of Applied Physics, 2012, 111, 014506.	1.1	53
40	Universal phase dynamics in VO <sub>2</sub> switches revealed by ultrafast operando diffraction. Science, 2021, 373, 352-355.	6.0	53
41	Neuromimetic Circuits with Synaptic Devices Based on Strongly Correlated Electron Systems. Physical Review Applied, 2014, 2, .	1.5	52
42	Substrate effects on metal-insulator transition characteristics of rf-sputtered epitaxial VO <sub>2</sub> thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	0.9	51
43	Tunable hyperbolic metamaterials utilizing phase change heterostructures. Applied Physics Letters, 2014, 104, .	1.5	50
44	Chemical and Radiation Stability of Ionic Liquids: A Computational Screening Study. Journal of Physical Chemistry C, 2016, 120, 27757-27767.	1.5	45
45	Limiting Optical Diodes Enabled by the Phase Transition of Vanadium Dioxide. ACS Photonics, 2018, 5, 2688-2692.	3.2	43
46	Heteroepitaxial VO <sub>2</sub> thin films on GaN: Structure and metal-insulator transition characteristics. Journal of Applied Physics, 2012, 112, 074114.	1.1	41
47	Current-modulated optical properties of vanadium dioxide thin films in the phase transition region. Applied Physics Letters, 2014, 105, .	1.5	39
48	GaN/VO <sub>2</sub> heteroepitaxial p-n junctions: Band offset and minority carrier dynamics. Journal of Applied Physics, 2013, 113, 213703.	1.1	38
49	Perovskite neural trees. Nature Communications, 2020, 11, 2245.	5.8	38
50	ASP: Learning to Forget With Adaptive Synaptic Plasticity in Spiking Neural Networks. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 51-64.	2.7	37
51	Epitaxy, strain, and composition effects on metal-insulator transition characteristics of SmNiO <sub>3</sub> thin films. Journal of Applied Physics, 2011, 109, .	1.1	36
52	Influence of surface orientation and defects on early-stage oxidation and ultrathin oxide growth on pure copper. Philosophical Magazine, 2011, 91, 4073-4088.	0.7	35
53	Electrostatic gating of metallic and insulating phases in SmNiO <sub>3</sub> ultrathin films. Applied Physics Letters, 2013, 102, 183102.	1.5	35
54	Sign reversal of magnetoresistance in a perovskite nickelate by electron doping. Physical Review B, 2016, 94, .	1.1	35

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55	Voltage-Pulse-Induced Switching Dynamics in $\text{VO}_2$ Thin-Film Devices on Silicon. IEEE Electron Device Letters, 2011, 32, 1582-1584.	2.2	34
56	Quick Switch: Strongly Correlated Electronic Phase Transition Systems for Cutting-Edge Microwave Devices. IEEE Microwave Magazine, 2014, 15, 32-44.	0.7	34
57	Metal-insulator transition and electrically driven memristive characteristics of $\text{SmNiO}_3$ thin films. Applied Physics Letters, 2011, 98, .	1.5	33
58	Perovskite nickelates as bio-electronic interfaces. Nature Communications, 2019, 10, 1651.	5.8	33
59	Evolution of local work function in epitaxial $\text{VO}_2$ thin films spanning the metal-insulator transition. Applied Physics Letters, 2012, 101, 191605.	1.5	31
60	Beyond electrostatic modification: design and discovery of functional oxide phases via ionic-electronic doping. Advances in Physics: X, 2019, 4, 1523686.	1.5	31
61	Organismic materials for beyond von Neumann machines. Applied Physics Reviews, 2020, 7, .	5.5	30
62	Effect of photon irradiation on structural, dielectric, and insulating properties of $\text{Ba}_{0.60}\text{Sr}_{0.40}\text{TiO}_3$ thin films. Applied Physics Letters, 2008, 92, 212906.	1.5	28
63	Electric field tuning of oxygen stoichiometry at oxide surfaces: molecular dynamics simulations studies of zirconia. Energy and Environmental Science, 2009, 2, 1196.	15.6	28
64	Microstructural study of epitaxial platinum and Permalloy/platinum films grown on (0001) sapphire. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 2073-2094.	0.8	27
65	<i>In Vivo</i> Glutamate Sensing inside the Mouse Brain with Perovskite Nickelate "Nafion Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 24564-24574.	4.0	27
66	Reconfigurable anisotropy and functional transformations with $\text{VO}_2$ metamaterial electric circuits. Physical Review B, 2015, 91, .	1.4	26
67	Synthesis and variable temperature electrical conductivity studies of highly ordered $\text{TiO}_2$ nanotubes. Journal of Materials Science, 2009, 44, 4613-4616.	1.7	25
68	Narrow band defect luminescence from Al-doped ZnO probed by scanning tunneling cathodoluminescence. Applied Physics Letters, 2011, 99, .	1.5	24
69	Heteroepitaxy of distorted rutile-structure $\text{WO}_2$ and $\text{NbO}_2$ thin films. Journal of Materials Research, 2013, 28, 2555-2563.	1.2	24
70	Thin film colossal dielectric constant oxide $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ : Synthesis, dielectric relaxation measurements, and electrode effects. Journal of Applied Physics, 2011, 109, 014106.	1.1	21
71	Breakthroughs in Photonics 2014: Phase Change Materials for Photonics. IEEE Photonics Journal, 2015, 7, 1-5.	1.0	21
72	Radiative Thermal Runaway Due to Negative-Differential Thermal Emission Across a Solid-Solid Phase Transition. Physical Review Applied, 2018, 10, .	1.5	20

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73	Ultrathin Broadband Reflective Optical Limiter. Laser and Photonics Reviews, 2021, 15, 2100001.	4.4	20
74	Electronic Granularity and the Work Function of Transparent Conducting ZnO:Al Thin Films. Advanced Functional Materials, 2011, 21, 4068-4072.	7.8	19
75	Metastable oxygen incorporation into thin film NiO by low temperature active oxidation: Influence on hole conduction. Journal of Applied Physics, 2010, 108, .	1.1	18
76	Vanadium Dioxide Circuits Emulate Neurological Disorders. Frontiers in Neuroscience, 2018, 12, 856.	1.4	18
77	In situ studies on twinning and cracking proximal to insulator-metal transition in self-supported VO <sub>2</sub> / Si <sub>3</sub> N <sub>4</sub> membranes. Journal of Materials Research, 2012, 27, 1476-1481.	1.2	17
78	Nonisostructural complex oxide heteroepitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	17
79	Preface for Special Topic: Ionotronics. APL Materials, 2017, 5, .	2.2	17
80	Low-temperature emergent neuromorphic networks with correlated oxide devices. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
81	Complex Oxides for Brain-Inspired Computing: A Review. Advanced Materials, 2023, 35, .	11.1	17
82	Direct measurement of compositional complexity-induced electronic inhomogeneity in VO <sub>2</sub> thin films grown on gate dielectrics. Applied Physics Letters, 2011, 98, 192113.	1.5	16
83	Multipolar Resonances with Designer Tunability Using $\text{VO}_2$ Phase-Change Materials. Physical Review Applied, 2020, 13, .	1.5	16
84	Electrochromic Properties of Perovskite NdNiO <sub>3</sub> Thin Films for Smart Windows. ACS Applied Electronic Materials, 2021, 3, 1719-1731.	2.0	16
85	Sudden Collapse of Magnetic Order in Oxygen-Deficient Nickelate Films. Physical Review Letters, 2021, 126, 187602.	2.9	16
86	Superior nanoscale passive oxide layers synthesized under photon irradiation for environmental protection. Applied Physics Letters, 2008, 92, 263103.	1.5	15
87	Compositional and metal-insulator transition characteristics of sputtered vanadium oxide thin films on yttria-stabilized zirconia. Journal of Materials Science, 2011, 46, 5768-5774.	1.7	15
88	Examination of insulator regime conduction mechanisms in epitaxial and polycrystalline SmNiO <sub>3</sub> thin films. Journal of Applied Physics, 2011, 110, 094102.	1.1	15
89	Conductivity noise study of the insulator-metal transition and phase coexistence in epitaxial samarium nickelate thin films. Physical Review B, 2014, 90, .	1.1	15
90	Catalytic Hydrogen Doping of NdNiO <sub>3</sub> Thin Films under Electric Fields. ACS Applied Materials & Interfaces, 2020, 12, 54955-54962.	4.0	15

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91	Neuromorphic learning with Mott insulator NiO. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
92	First Experimental Demonstration of Robust HZO/ $\text{In}^{2-}\text{Ga}^{\text{O}}$ Ferroelectric Field-Effect Transistors as Synaptic Devices for Artificial Intelligence Applications in a High-Temperature Environment. IEEE Transactions on Electron Devices, 2021, 68, 2515-2521.	1.6	14
93	Molecular beam synthesis and high temperature electrical properties of crystalline ceria thin films. Applied Physics Letters, 2007, 91, .	1.5	13
94	Compositional tuning of ultrathin surface oxides on metal and alloy substrates using photons: Dynamic simulations and experiments. Physical Review B, 2010, 81, .	1.1	13
95	Size effects on stress relaxation across the metal-insulator transition in $\text{VO}_2$ thin films. Journal of Materials Research, 2011, 26, 1384-1387.	1.2	13
96	A Self-Consistent, Semiclassical Electrothermal Modeling Framework for Mott Devices. IEEE Transactions on Electron Devices, 2018, 65, 1672-1678.	1.6	13
97	Proton-doped strongly correlated perovskite nickelate memory devices. IEEE Electron Device Letters, 2018, , 1-1.	2.2	13
98	Effect of photon irradiation on structure of yttria-doped zirconia thin films grown on semiconductor substrates. Applied Physics Letters, 2007, 91, 253104.	1.5	11
99	First demonstration of robust tri-gate $\text{In}^{2-}\text{Ga}^{2-}\text{O}^{3-}$ nano-membrane field-effect transistors. Nanotechnology, 2022, 33, 125201.	1.3	11
100	A post-growth processing methodology to achieve barium strontium titanate thin films with low dielectric loss and high tunability for reconfigurable tunable devices. Journal of Materials Science, 2009, 44, 5332-5338.	1.7	10
101	High temperature electrical conduction in nanoscale hafnia films under varying oxygen partial pressure. Applied Physics Letters, 2010, 97, 082102.	1.5	10
102	Electrically Driven Insulator-Metal Transition-Based Devices Part I: The Electrothermal Model and Experimental Analysis for the DC Characteristics. IEEE Transactions on Electron Devices, 2018, 65, 3982-3988.	1.6	10
103	Dynamics of voltage-driven oscillating insulator-metal transitions. Physical Review B, 2021, 104, .	1.1	10
104	Tuning carrier density and phase transitions in oxide semiconductors using focused ion beams. Nanophotonics, 2022, 11, 3923-3932.	2.9	10
105	Transference Numbers for $\text{In}^{\text{Plane}}$ Carrier Conduction in Thin Film Nanostructured Gadolinia-Doped Ceria Under Varying Oxygen Partial Pressure. Journal of the American Ceramic Society, 2009, 92, 2400-2403.	1.9	9
106	Active low temperature oxidation as a route to minimize electrode-oxide interface reactions in nanoscale capacitors. Journal of Applied Physics, 2010, 108, 024106.	1.1	9
107	Multi-Resistance States Through Electrically Driven Phase Transitions in $\text{VO}_2/\text{HfO}_2/\text{VO}_2$ Heterostructures on Silicon. IEEE Electron Device Letters, 2012, 33, 101-103.	2.2	9
108	High-Temperature Electrical Conductivity Measurements on Nanostructured Yttria-Doped Ceria Thin Films in Ozone. Journal of the American Ceramic Society, 2012, 95, 312-317.	1.9	9

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109	Local charge writing in epitaxial SmNiO <sub>3</sub> thin films. Journal of Materials Chemistry C, 2014, 2, 3805-3811.	2.7	9
110	Synthesis of hollow porous nanospheres of hydroxyl titanium oxalate and their topotactic conversion to anatase titania. Journal of Materials Research, 2011, 26, 1545-1551.	1.2	8
111	Chloride ions induce order-disorder transition at water-oxide interfaces. Physical Review E, 2013, 88, 062119.	0.8	7
112	Using Atom-Probe Tomography to Understand $\text{ZnO} \xrightarrow{\text{Al}} \text{ZnAlO}_2$	1.5	7
113	Diodes. Physical Review Applied, 2016, 6, . Cation and anion topotactic transformations in cobaltite thin films leading to Ruddlesden-Popper phases. Physical Review Materials, 2021, 5, .	0.9	7
114	Electrothermal actuation of metal-insulator transition in SmNiO <sub>3</sub> thin film devices above room temperature. Journal of Applied Physics, 2012, 111, .	1.1	6
115	Space charge polarization induced memory in SmNiO <sub>3</sub> /Si transistors. Applied Physics Letters, 2013, 102, .	1.5	6
116	Experimental investigation into tungsten carbide thin films as solid oxide fuel cell anodes. Journal of Materials Research, 2016, 31, 3050-3059.	1.2	6
117	Proton distribution visualization in perovskite nickelate devices utilizing nanofocused x rays. Physical Review Materials, 2021, 5, .	0.9	6
118	Electron Doping-Induced Metal-Insulator Transition in LaNiO <sub>3</sub> and Memory Devices. ACS Applied Electronic Materials, 2022, 4, 2463-2472.	2.0	6
119	Enhanced grain growth in yttria-doped zirconia thin film structures synthesized under photon irradiation. Philosophical Magazine Letters, 2008, 88, 583-590.	0.5	5
120	Direct measurement of oxygen incorporation into thin film oxides at room temperature upon ultraviolet photon irradiation. Applied Physics Letters, 2008, 93, .	1.5	5
121	Synthesis and interfacial phenomena in ultra-thin yttria-doped zirconia films grown by alloy oxidation under photon irradiation. Applied Physics Letters, 2008, 92, 033107.	1.5	5
122	Transmission electron microscopy studies on structure and defects in crystalline yttria and lanthanum oxide thin films grown on single crystal sapphire by molecular beam synthesis. Philosophical Magazine, 2010, 90, 1123-1139.	0.7	5
123	Switching Dynamics in Vanadium Dioxide-Based Stochastic Thermal Neurons. IEEE Transactions on Electron Devices, 2022, 69, 3135-3141.	1.6	5
124	Tunable optical anisotropy in epitaxial phase-change VO <sub>2</sub> thin films. Nanophotonics, 2022, 11, 3913-3922.	2.9	5
125	Abrupt Insertion Loss Drop by RF-Triggering of the Phase Transition in $\text{VO}_2$ CPW Switches. IEEE Microwave and Wireless Components Letters, 2014, 24, 575-577.	2.0	4
126	Functional materials at the flick of a switch. Nature, 2017, 546, 40-41.	13.7	4



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127	Thermally tunable VO <sub>2</sub> -SiO <sub>2</sub> nanocomposite thin-film capacitors. Journal of Applied Physics, 2018, 123, .	1.1	4
128	VO <sub>2</sub> Phase-Transition-Based Vertical MEMS Microactuators. IEEE Transactions on Electron Devices, 2019, 66, 4380-4386.	1.6	4
129	Electrically-driven metal-insulator transition with tunable threshold voltage in a VO <sub>2</sub> -SmNiO <sub>3</sub> heterostructure on silicon. Journal of Applied Physics, 2011, 110, .	1.1	3
130	Thickness-dependent orientation evolution in nickel thin films grown on yttria-stabilized zirconia single crystals. Philosophical Magazine, 2011, 91, 4311-4323.	0.7	3
131	Nanoscale Compositionally Graded Thin-Film Electrolyte Membranes for Low-Temperature Solid Oxide Fuel Cells (Adv. Energy Mater. 6/2012). Advanced Energy Materials, 2012, 2, 655-655.	10.2	3
132	Heteroepitaxy and crystallographic orientation transition in La <sub>1.875</sub> Sr <sub>0.125</sub> NiO <sub>4</sub> thin films on single crystal SrTiO <sub>3</sub> . Journal of Materials Research, 2013, 28, 1420-1431.	1.2	3
133	Hydride-Based Solid Oxide Fuel Cell-Battery Hybrid Electrochemical System. Energy Technology, 2017, 5, 616-622.	1.8	3
134	VO <sub>2</sub> Switch for Electrostatic Discharge Protection. IEEE Electron Device Letters, 2020, 41, 292-295.	2.2	3
135	Fabrication and physical properties of thin Ti <sub>x</sub> O <sub>y</sub> membranes from single crystal TiO <sub>2</sub> . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 021601.	0.9	2
136	Electric field assisted annealing effects on microstructure and ionic conductivity in ceria/YSZ oxide heterostructures. Philosophical Magazine, 2013, 93, 1802-1826.	0.7	2
137	Determining the Oxygen Stoichiometry of Cobaltite Thin Films. Chemistry of Materials, 2022, 34, 2076-2084.	3.2	2
138	Synthesis and electrical behavior of VO <sub>2</sub> thin films grown on SrRuO <sub>3</sub> electrode layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	2
139	Effect of intrinsic stress from a nanoscale high-dielectric constant gate oxide on strain in a transistor channel. Applied Physics Letters, 2007, 91, 012106.	1.5	1
140	Tunable catalysis via insulator-metal transition. Nature Catalysis, 2020, 3, 609-610.	16.1	1
141	A new single element phase transition memory. , 2010, , .		0
142	Correlated oxide phase transition switch: A paradigm in electron devices. , 2011, , .		0
143	Small signal characteristics of ionic liquid gated mott transistors. , 2013, , .		0
144	Visualizing Phase Transition Induced Actuation in Vanadium Dioxide in a Transmission Electron Microscope. Microscopy and Microanalysis, 2014, 20, 1888-1889.	0.2	0

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145	Active metasurface devices based on correlated perovskites. , 2016, , .		0
146	Vanadium Oxide Based Waveguide Modulator Integrated on Silicon. , 2019, , .		0