

Shriram Ramanathan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10041230/publications.pdf>

Version: 2024-02-01

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	Complex Oxides for Brain-Inspired Computing: A Review. <i>Advanced Materials</i> , 2023, 35, .	11.1	17
2	First demonstration of robust tri-gate $\text{In}^2\text{-Ga}_2\text{O}_3$ nano-membrane field-effect transistors. <i>Nanotechnology</i> , 2022, 33, 125201.	1.3	11
3	Reconfigurable perovskite nickelate electronics for artificial intelligence. <i>Science</i> , 2022, 375, 533-539.	6.0	93
4	Determining the Oxygen Stoichiometry of Cobaltite Thin Films. <i>Chemistry of Materials</i> , 2022, 34, 2076-2084.	3.2	2
5	Switching Dynamics in Vanadium Dioxide-Based Stochastic Thermal Neurons. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3135-3141.	1.6	5
6	Electron Doping-Induced Metal-Insulator Transition in LaNiO_3 and Memory Devices. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2463-2472.	2.0	6
7	Tunable optical anisotropy in epitaxial phase-change VO_2 thin films. <i>Nanophotonics</i> , 2022, 11, 3913-3922.	2.9	5
8	Tuning carrier density and phase transitions in oxide semiconductors using focused ion beams. <i>Nanophotonics</i> , 2022, 11, 3923-3932.	2.9	10
9	Synthesis and electrical behavior of VO_2 thin films grown on SrRuO_3 electrode layers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	2
10	Tunable Mie-Resonant Dielectric Metasurfaces Based on VO_2 Phase-Transition Materials. <i>ACS Photonics</i> , 2021, 8, 1206-1213.	3.2	80
11	Electrochromic Properties of Perovskite NdNiO_3 Thin Films for Smart Windows. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1719-1731.	2.0	16
12	Ultrathin Broadband Reflective Optical Limiter. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100001.	4.4	20
13	First Experimental Demonstration of Robust $\text{HfO}_2/\text{In}^2\text{-Ga}_2\text{O}_3$ Ferroelectric Field-Effect Transistors as Synaptic Devices for Artificial Intelligence Applications in a High-Temperature Environment. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2515-2521.	1.6	14
14	Sudden Collapse of Magnetic Order in Oxygen-Deficient Nickelate Films. <i>Physical Review Letters</i> , 2021, 126, 187602.	2.9	16
15	Cation and anion topotactic transformations in cobaltite thin films leading to Ruddlesden-Popper phases. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
16	Universal phase dynamics in VO_2 switches revealed by ultrafast operando diffraction. <i>Science</i> , 2021, 373, 352-355.	6.0	53
17	Dynamics of voltage-driven oscillating insulator-metal transitions. <i>Physical Review B</i> , 2021, 104, .	1.1	10
18	Low-temperature emergent neuromorphic networks with correlated oxide devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	17

#	ARTICLE	IF	CITATIONS
19	Neuromorphic learning with Mott insulator NiO. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
20	Proton distribution visualization in perovskite nickelate devices utilizing nanofocused x rays. Physical Review Materials, 2021, 5, .	0.9	6
21	VO ₂ Switch for Electrostatic Discharge Protection. IEEE Electron Device Letters, 2020, 41, 292-295.	2.2	3
22	Catalytic Hydrogen Doping of NdNiO ₃ Thin Films under Electric Fields. ACS Applied Materials & Interfaces, 2020, 12, 54955-54962.	4.0	15
23	VO ₂ nanophotonics. APL Photonics, 2020, 5, .	3.0	77
24	Tunable catalysis via insulator-metal transition. Nature Catalysis, 2020, 3, 609-610.	16.1	1
25	Perovskite neural trees. Nature Communications, 2020, 11, 2245.	5.8	38
26	<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
27	Organismic materials for beyond von Neumann machines. Applied Physics Reviews, 2020, 7, .	5.5	30
28	Multipolar Resonances with Designer Tunability Using VO_2 Phase-Change Materials. Physical Review Applied, 2020, 13, .	1.5	16
29	On the Optical Properties of Thin-Film Vanadium Dioxide from the Visible to the Far Infrared. Annalen Der Physik, 2019, 531, 1900188.	0.9	135
30	Carrier localization in perovskite nickelates from oxygen vacancies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21992-21997.	3.3	71
31	Perovskite nickelates as bio-electronic interfaces. Nature Communications, 2019, 10, 1651.	5.8	33
32	Vanadium Oxide Based Waveguide Modulator Integrated on Silicon. , 2019, , .		0
33	Temperature-independent thermal radiation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26402-26406.	3.3	69
34	VO ₂ Phase-Transition-Based Vertical MEMS Microactuators. IEEE Transactions on Electron Devices, 2019, 66, 4380-4386.	1.6	4
35	Beyond electrostatic modification: design and discovery of functional oxide phases via ionic-electronic doping. Advances in Physics: X, 2019, 4, 1523686.	1.5	31
36	Perovskite nickelates as electric-field sensors in salt water. Nature, 2018, 553, 68-72.	13.7	146

#	ARTICLE	IF	CITATIONS
37	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
38	Thermally tunable VO ₂ -SiO ₂ nanocomposite thin-film capacitors. Journal of Applied Physics, 2018, 123, .	1.1	4
39	Vanadium Dioxide Circuits Emulate Neurological Disorders. Frontiers in Neuroscience, 2018, 12, 856.	1.4	18
40	A Self-Consistent, Semiclassical Electrothermal Modeling Framework for Mott Devices. IEEE Transactions on Electron Devices, 2018, 65, 1672-1678.	1.6	13
41	Radiative Thermal Runaway Due to Negative-Differential Thermal Emission Across a Solid-Solid Phase Transition. Physical Review Applied, 2018, 10, .	1.5	20
42	Proton-doped strongly correlated perovskite nickelate memory devices. IEEE Electron Device Letters, 2018, , 1-1.	2.2	13
43	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
44	Electrically Driven Insulatorâ€“Metal Transition-Based Devicesâ€“Part I: The Electrothermal Model and Experimental Analysis for the DC Characteristics. IEEE Transactions on Electron Devices, 2018, 65, 3982-3988.	1.6	10
45	Limiting Optical Diodes Enabled by the Phase Transition of Vanadium Dioxide. ACS Photonics, 2018, 5, 2688-2692.	3.2	43
46	Preface for Special Topic: Ionotronics. APL Materials, 2017, 5, .	2.2	17
47	Functional materials at the flick of a switch. Nature, 2017, 546, 40-41.	13.7	4
48	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. Physical Review Applied, 2017, 7, .	1.5	88
49	Habituation based synaptic plasticity and organismic learning in a quantum perovskite. Nature Communications, 2017, 8, 240.	5.8	84
50	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. Physical Review Applied, 2017, 8, .	1.5	88
51	Hydrideâ€“Based Solid Oxide Fuel Cellâ€“Battery Hybrid Electrochemical System. Energy Technology, 2017, 5, 616-622.	1.8	3
52	Sign reversal of magnetoresistance in a perovskite nickelate by electron doping. Physical Review B, 2016, 94, .	1.1	35
53	Active metasurface devices based on correlated perovskites. , 2016, , .		0
54	Experimental investigation into tungsten carbide thin films as solid oxide fuel cell anodes. Journal of Materials Research, 2016, 31, 3050-3059.	1.2	6

#	ARTICLE	IF	CITATIONS
55	Strongly correlated perovskite fuel cells. Nature, 2016, 534, 231-234.	13.7	387
56	Using Atom-Probe Tomography to Understand ZnO Diodes. Physical Review Applied, 2016, 6, .	1.5	7
57	Correlated Perovskites as a New Platform for Superbroadband Tunable Photonics. Advanced Materials, 2016, 28, 9117-9125.	11.1	72
58	Chemical and Radiation Stability of Ionic Liquids: A Computational Screening Study. Journal of Physical Chemistry C, 2016, 120, 27757-27767.	1.5	45
59	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. Nano Letters, 2016, 16, 1050-1055.	4.5	186
60	Reconfigurable anisotropy and functional transformations with VO_2 metamaterial electric circuits. Physical Review B, 2015, 91, .	1.4	26
61	Mott Memory and Neuromorphic Devices. Proceedings of the IEEE, 2015, 103, 1289-1310.	16.4	264
62	Breakthroughs in Photonics 2014: Phase Change Materials for Photonics. IEEE Photonics Journal, 2015, 7, 1-5.	1.0	21
63	Dynamic control of light emission faster than the lifetime limit using VO_2 phase-change. Nature Communications, 2015, 6, 8636.	5.8	101
64	Orbital splitting and optical conductivity of the insulating state of NbO_2 . Physical Review B, 2014, 90, .	1.1	59
65	Neuromimetic Circuits with Synaptic Devices Based on Strongly Correlated Electron Systems. Physical Review Applied, 2014, 2, .	1.5	52
66	Current-modulated optical properties of vanadium dioxide thin films in the phase transition region. Applied Physics Letters, 2014, 105, .	1.5	39
67	Tunable hyperbolic metamaterials utilizing phase change heterostructures. Applied Physics Letters, 2014, 104, .	1.5	50
68	Origins of bad-metal conductivity and the insulator-metal transition in the rare-earth nickelates. Nature Physics, 2014, 10, 304-307.	6.5	143
69	Nonisostructural complex oxide heteroepitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	17
70	Abrupt Insertion Loss Drop by RF-Triggering of the Phase Transition in VO_2 CPW Switches. IEEE Microwave and Wireless Components Letters, 2014, 24, 575-577.	2.0	4
71	Local charge writing in epitaxial $SmNiO_3$ thin films. Journal of Materials Chemistry C, 2014, 2, 3805-3811.	2.7	9
72	Quick Switch: Strongly Correlated Electronic Phase Transition Systems for Cutting-Edge Microwave Devices. IEEE Microwave Magazine, 2014, 15, 32-44.	0.7	34

#	ARTICLE	IF	CITATIONS
73	Colossal resistance switching and band gap modulation in a perovskite nickelate by electron doping. Nature Communications, 2014, 5, 4860.	5.8	227
74	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
75	Visualizing Phase Transition Induced Actuation in Vanadium Dioxide in a Transmission Electron Microscope. Microscopy and Microanalysis, 2014, 20, 1888-1889.	0.2	0
76	Electrostatic gating of metallic and insulating phases in SmNiO ₃ ultrathin films. Applied Physics Letters, 2013, 102, 183102.	1.5	35
77	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
78	Voltage-Triggered Ultrafast Phase Transition in Vanadium Dioxide Switches. IEEE Electron Device Letters, 2013, 34, 220-222.	2.2	225
79	Electric field assisted annealing effects on microstructure and ionic conductivity in ceria/YSZ oxide heterostructures. Philosophical Magazine, 2013, 93, 1802-1826.	0.7	2
80	Small signal characteristics of ionic liquid gated mott transistors. , 2013, , .		0
81	Heteroepitaxy and crystallographic orientation transition in La _{1.875} Sr _{0.125} NiO ₄ thin films on single crystal SrTiO ₃ . Journal of Materials Research, 2013, 28, 1420-1431.	1.2	3
82	Heteroepitaxy of distorted rutile-structure WO ₂ and NbO ₂ thin films. Journal of Materials Research, 2013, 28, 2555-2563.	1.2	24
83	Space charge polarization induced memory in SmNiO ₃ /Si transistors. Applied Physics Letters, 2013, 102, .	1.5	6
84	Electrical switching dynamics and broadband microwave characteristics of VO ₂ radio frequency devices. Journal of Applied Physics, 2013, 113, .	1.1	95
85	Hall effect measurements on epitaxial SmNiO ₃ thin films and implications for antiferromagnetism. Physical Review B, 2013, 87, .	1.1	55
86	Chloride ions induce order-disorder transition at water-oxide interfaces. Physical Review E, 2013, 88, 062119.	0.8	7
87	GaN/VO ₂ heteroepitaxial p-n junctions: Band offset and minority carrier dynamics. Journal of Applied Physics, 2013, 113, 213703.	1.1	38
88	Studies on room-temperature electric-field effect in ionic-liquid gated VO ₂ three-terminal devices. Journal of Applied Physics, 2012, 111, 014506.	1.1	53
89	Heteroepitaxial VO ₂ thin films on GaN: Structure and metal-insulator transition characteristics. Journal of Applied Physics, 2012, 112, 074114.	1.1	41
90	Fabrication and physical properties of thin Ti _x O _y membranes from single crystal TiO ₂ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 021601.	0.9	2

#	ARTICLE	IF	CITATIONS
91	Evolution of local work function in epitaxial VO ₂ thin films spanning the metal-insulator transition. Applied Physics Letters, 2012, 101, 191605.	1.5	31
92	Electrothermal actuation of metal-insulator transition in SmNiO ₃ thin film devices above room temperature. Journal of Applied Physics, 2012, 111, .	1.1	6
93	Relaxation dynamics of ionic liquid-VO ₂ interfaces and influence in electric double-layer transistors. Journal of Applied Physics, 2012, 111, .	1.1	69
94	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
95	Ultra-thin perfect absorber employing a tunable phase change material. Applied Physics Letters, 2012, 101, .	1.5	519
96	In situ studies on twinning and cracking proximal to insulator-metal transition in self-supported VO ₂ / Si ₃ N ₄ membranes. Journal of Materials Research, 2012, 27, 1476-1481.	1.2	17
97	Nanoscale Compositionally Graded Thin-Film Electrolyte Membranes for Low-Temperature Solid Oxide Fuel Cells. Advanced Energy Materials, 2012, 2, 656-661.	10.2	66
98	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
99	High-Temperature Electrical Conductivity Measurements on Nanostructured Ytria-Doped Ceria Thin Films in Ozone. Journal of the American Ceramic Society, 2012, 95, 312-317.	1.9	9
100	Correlated oxide phase transition switch: A paradigm in electron devices. , 2011, , .		0
101	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
102	Low temperature thin film solid oxide fuel cells with nanoporous ruthenium anodes for direct methane operation. Energy and Environmental Science, 2011, 4, 3473.	15.6	71
103	Epitaxy, strain, and composition effects on metal-insulator transition characteristics of SmNiO ₃ thin films. Journal of Applied Physics, 2011, 109, .	1.1	36
104	Adaptive oxide electronics: A review. Journal of Applied Physics, 2011, 110, .	1.1	268
105	Oxide Electronics Utilizing Ultrafast Metal-Insulator Transitions. Annual Review of Materials Research, 2011, 41, 337-367.	4.3	818
106	Voltage-Pulse-Induced Switching Dynamics in VO_2 Thin-Film Devices on Silicon. IEEE Electron Device Letters, 2011, 32, 1582-1584.	2.2	34
107	Thin film colossal dielectric constant oxide La _{2-x} Sr _x NiO ₄ : Synthesis, dielectric relaxation measurements, and electrode effects. Journal of Applied Physics, 2011, 109, 014106.	1.1	21
108	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

#	ARTICLE	IF	CITATIONS
109	Electronic Granularity and the Work Function of Transparent Conducting ZnO:Al Thin Films. <i>Advanced Functional Materials</i> , 2011, 21, 4068-4072.	7.8	19
110	Electrically-driven metal-insulator transition with tunable threshold voltage in a VO ₂ -SmNiO ₃ heterostructure on silicon. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	3
111	Narrow band defect luminescence from Al-doped ZnO probed by scanning tunneling cathodoluminescence. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	24
112	Direct measurement of compositional complexity-induced electronic inhomogeneity in VO ₂ thin films grown on gate dielectrics. <i>Applied Physics Letters</i> , 2011, 98, 192113.	1.5	16
113	Metal-insulator transition and electrically driven memristive characteristics of SmNiO ₃ thin films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	33
114	Examination of insulator regime conduction mechanisms in epitaxial and polycrystalline SmNiO ₃ thin films. <i>Journal of Applied Physics</i> , 2011, 110, 094102.	1.1	15
115	Substrate effects on metal-insulator transition characteristics of rf-sputtered epitaxial VO ₂ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011, 29, .	0.9	51
116	Studies on electric triggering of the metal-insulator transition in VO ₂ thin films between 77 K and 300 K. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	62
117	Size effects on stress relaxation across the metal-insulator transition in VO ₂ thin films. <i>Journal of Materials Research</i> , 2011, 26, 1384-1387.	1.2	13
118	Thickness-dependent orientation evolution in nickel thin films grown on yttria-stabilized zirconia single crystals. <i>Philosophical Magazine</i> , 2011, 91, 4311-4323.	0.7	3
119	Synthesis of hollow porous nanospheres of hydroxyl titanium oxalate and their topotactic conversion to anatase titania. <i>Journal of Materials Research</i> , 2011, 26, 1545-1551.	1.2	8
120	Compositional tuning of ultrathin surface oxides on metal and alloy substrates using photons: Dynamic simulations and experiments. <i>Physical Review B</i> , 2010, 81, .	1.1	13
121	Nanoscale imaging and control of resistance switching in VO ₂ at room temperature. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	120
122	Three-terminal field effect devices utilizing thin film vanadium oxide as the channel layer. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	142
123	High temperature electrical conduction in nanoscale hafnia films under varying oxygen partial pressure. <i>Applied Physics Letters</i> , 2010, 97, 082102.	1.5	10
124	Active low temperature oxidation as a route to minimize electrode-oxide interface reactions in nanoscale capacitors. <i>Journal of Applied Physics</i> , 2010, 108, 024106.	1.1	9
125	Metastable oxygen incorporation into thin film NiO by low temperature active oxidation: Influence on hole conduction. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	18
126	Thermal conductivity and dynamic heat capacity across the metal-insulator transition in thin film VO ₂ . <i>Applied Physics Letters</i> , 2010, 96, .	1.5	178

#	ARTICLE	IF	CITATIONS
127	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
128	A new single element phase transition memory. , 2010, , .		0
129	On the triggering mechanism for the metal-insulator transition in thin film VO ₂ devices: electric field versus thermal effects. Journal of Materials Science, 2009, 44, 5345-5353.	1.7	101
130	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
131	Synthesis and variable temperature electrical conductivity studies of highly ordered TiO ₂ nanotubes. Journal of Materials Science, 2009, 44, 4613-4616.	1.7	25
132	Transference Numbers for In-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
133	Hall carrier density and magnetoresistance measurements in thin-film vanadium dioxide across the metal-insulator transition. Physical Review B, 2009, 79, .	1.1	129
134	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
135	Electrical triggering of metal-insulator transition in nanoscale vanadium oxide junctions. Journal of Applied Physics, 2009, 106, .	1.1	93
136	Superior nanoscale passive oxide layers synthesized under photon irradiation for environmental protection. Applied Physics Letters, 2008, 92, 263103.	1.5	15
137	Enhanced grain growth in yttria-doped zirconia thin film structures synthesized under photon irradiation. Philosophical Magazine Letters, 2008, 88, 583-590.	0.5	5
138	Direct measurement of oxygen incorporation into thin film oxides at room temperature upon ultraviolet photon irradiation. Applied Physics Letters, 2008, 93, .	1.5	5
139	Correlation between metal-insulator transition characteristics and electronic structure changes in vanadium oxide thin films. Physical Review B, 2008, 77, .	1.1	97
140	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
141	Effect of photon irradiation on structural, dielectric, and insulating properties of Ba _{0.60} Sr _{0.40} TiO ₃ thin films. Applied Physics Letters, 2008, 92, 212906.	1.5	28
142	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
143	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
144	Molecular beam synthesis and high temperature electrical properties of crystalline ceria thin films. Applied Physics Letters, 2007, 91, .	1.5	13

#	ARTICLE	IF	CITATIONS
145	X-ray absorption spectroscopy of vanadium dioxide thin films across the phase-transition boundary. Physical Review B, 2007, 75, .	1.1	79
146	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