

Vaithiyalingam Shutthanandan

List of Publications by Year in descending order

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253
papers

8,892
citations

53939
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66518
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docs citations

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times ranked

12302
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> x-ray photoelectron spectroscopy analysis of electrochemical interfaces in battery: Recent advances and remaining challenges. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	16
2	Crosslinked Polyethyleneimine Gel Polymer Interface to Improve Cycling Stability of RFBs. <i>Energy Material Advances</i> , 2022, 2022, .	4.7	3
3	Designing Porous Ion Emitters for Thermal Ionization Mass Spectrometry: Evaluating Metalâ€“Organic Frameworks. <i>Analytical Chemistry</i> , 2022, 94, 2072-2077.	3.2	3
4	Tuning the Charge and Hydrophobicity of Graphene Oxide Membranes by Functionalization with Ionic Liquids at Epoxide Sites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19031-19042.	4.0	6
5	Microstructure, chemical inhomogeneity, and electronic properties of tin-incorporated Ga ₂ O ₃ compounds. <i>Journal of Materials Science</i> , 2022, 57, 11170-11188.	1.7	5
6	Electronic Structure, Chemical Bonding, and Electrocatalytic Activity of Ba(Fe _{0.7} Ta _{0.3})O ₃ Compounds. <i>ACS Applied Energy Materials</i> , 2021, 4, 1313-1322.	2.5	14
7	Size- and Phase-Controlled Nanometer-Thick $\text{I}^2\text{-Ga}_{2}\text{O}_{3}$ Films with Green Photoluminescence for Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 3331-3338.	2.4	20
8	Graphene Oxide as a Pb(II) Separation Medium: Has Part of the Story Been Overlooked?. <i>Jacs Au</i> , 2021, 1, 766-776.	3.6	9
9	Wide-Field Dynamic Magnetic Microscopy Using Double-Double Quantum Driving of a Diamond Defect Ensemble. <i>Physical Review Applied</i> , 2021, 15, .	1.5	10
10	Role of Polysulfide Anions in Solid-Electrolyte Interphase Formation at the Lithium Metal Surface in Li-S Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9360-9367.	2.1	13
11	Electronic structure and chemical bonding in transition-metal-mixed gallium oxide (Ga ₂ O ₃) compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 157, 110174.	1.9	21
12	Evolution of metastable phases during Mg metal corrosion: An <i>in situ</i> cryogenic x-ray photoelectron spectroscopy study. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	3
13	Structureâ€“Property Correlation of Hierarchically Porous Carbons for Fluorocarbon Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54266-54273.	4.0	7
14	Crystal Chemistry, Band-Gap Red Shift, and Electrocatalytic Activity of Iron-Doped Gallium Oxide Ceramics. <i>ACS Omega</i> , 2020, 5, 104-112.	1.6	45
15	Metalâ€“Organic Framework-Based Microfluidic Impedance Sensor Platform for Ultrasensitive Detection of Perfluorooctanesulfonate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10503-10514.	4.0	77
16	Effect of Titanium Induced Chemical Inhomogeneity on Crystal Structure, Electronic Structure, and Optical Properties of Wide Band Gap Ga ₂ O ₃ . <i>Crystal Growth and Design</i> , 2020, 20, 1422-1433.	1.4	21
17	Rapid Response High Temperature Oxygen Sensor Based on Titanium Doped Gallium Oxide. <i>Scientific Reports</i> , 2020, 10, 178.	1.6	28
18	Effect of Interface Structure on the Hydrophobicity, Mechanical and Optical Properties of HfO ₂ /Mo/HfO ₂ Multilayer Films. <i>Jom</i> , 2019, 71, 3711-3719.	0.9	1

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19	Structure, Magnetism, and the Interaction of Water with Ti-Doped Fe ₃ O ₄ Surfaces. <i>Langmuir</i> , 2019, 35, 13872-13879.	1.6	6
20	Effect of Ti doping on the crystallography, phase, surface/interface structure and optical band gap of Ga ₂ O ₃ thin films. <i>Journal of Materials Science</i> , 2019, 54, 11526-11537.	1.7	21
21	Probing the Sorption of Perfluorooctanesulfonate Using Mesoporous Metal-Organic Frameworks from Aqueous Solutions. <i>Inorganic Chemistry</i> , 2019, 58, 8339-8346.	1.9	51
22	Electronic Structure of Tungsten-Doped $\text{Ga}^{12}\text{-Ga}_2\text{O}_3$ Compounds. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, Q3111-Q3115.	0.9	21
23	Investigation of the Ligand-Nanoparticle Interface: A Cryogenic Approach for Preserving Surface Chemistry. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3582-3590.	1.5	12
24	Microstructure tuning facilitated photo-efficiency enhancement and environmental benign nature of HfO ₂ /Mo/HfO ₂ multilayer films. <i>Solar Energy</i> , 2018, 166, 146-158.	2.9	8
25	Correlation between Structure, Chemistry, and Dielectric Properties of Iron-Doped Gallium Oxide ($\text{Ga}_2\text{Fe}_x\text{O}_3$). <i>Journal of Physical Chemistry C</i> , 2018, 122, 27597-27607.	1.5	24
26	Radiation Tolerant Interfaces: Influence of Local Stoichiometry at the Misfit Dislocation on Radiation Damage Resistance of Metal/Oxide Interfaces. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700037.	1.9	10
27	In Situ Chemical Imaging of Solid-Electrolyte Interphase Layer Evolution in Li-S Batteries. <i>Chemistry of Materials</i> , 2017, 29, 4728-4737.	3.2	147
28	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21879-21890.	4.0	18
29	Damage evolution of ion irradiated defected-fluorite La ₂ Zr ₂ O ₇ epitaxial thin films. <i>Acta Materialia</i> , 2017, 130, 111-120.	3.8	20
30	Hierarchically Porous Graphitic Carbon with Simultaneously High Surface Area and Colossal Pore Volume Engineered via Ice Templating. <i>ACS Nano</i> , 2017, 11, 11047-11055.	7.3	69
31	Impact of Ti Incorporation on Hydroxylation and Wetting of Fe ₃ O ₄ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 19288-19295.	1.5	10
32	Controlled optical properties via chemical composition tuning in molybdenum-incorporated Ga_2O_3 nanocrystalline films. <i>Chemical Physics Letters</i> , 2017, 684, 363-367.	1.2	17
33	Ice nucleation activity of diesel soot particles at cirrus relevant temperature conditions: Effects of hydration, secondary organics coating, soot morphology, and coagulation. <i>Geophysical Research Letters</i> , 2016, 43, 3580-3588.	1.5	47
34	Lattice damage and compositional changes in Xe ion irradiated $\text{In}_{x}\text{Ga}_{1-x}\text{N}$ ($x = \frac{T_{j}}{T_{\text{f}}} \text{ETQq} / 0.0 \text{rgBT} / \text{Overlock} 10 \text{ Tf}$)		
35	Competing Pathways for Nucleation of the Double Perovskite Structure in the Epitaxial Synthesis of La ₂ MnNiO ₆ . <i>Chemistry of Materials</i> , 2016, 28, 3814-3822.	3.2	29
36	The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. <i>Redox Biology</i> , 2016, 9, 264-275.	3.9	12

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37	Alpha Radiation Effects on Silicon Oxynitride Waveguides. ACS Photonics, 2016, 3, 1569-1574.	3.2	14
38	RedOx-controlled sorption of iodine anions by hydrotalcite composites. RSC Advances, 2016, 6, 76042-76055.	1.7	23
39	Tungsten Incorporation into Gallium Oxide: Crystal Structure, Surface and Interface Chemistry, Thermal Stability, and Interdiffusion. Journal of Physical Chemistry C, 2016, 120, 26720-26735.	1.5	42
40	Increased Thermal Conductivity in Metal-Organic Heat Carrier Nanofluids. Scientific Reports, 2016, 6, 27805. <i>Hole-induced insulator-to-metal transition in mml:math</i> $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \mathit{\text{mathvariant}}=\text{"normal"} \rangle L \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \mathit{\text{mathvariant}}=\text{"normal"} \rangle a \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{a}^{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \mathit{\text{mathvariant}}=\text{"normal"} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \mathit{\text{mathvariant}}=\text{"normal"} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \mathit{\text{mathvariant}}=\text{"normal"} \rangle Cr \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \mathit{\text{mathvariant}}=\text{"normal"} \rangle$	1.6	20
41	Effects of cation stoichiometry on electronic and structural properties of LaNiO ₃ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	7
42	Ice formation on nitric acid-coated dust particles: Laboratory and modeling studies. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7682-7698.	1.2	18
43	Effects of crystallographic properties on the ice nucleation properties of volcanic ash particles. Geophysical Research Letters, 2015, 42, 3048-3055.	1.5	18
44	Photothermal Superheating of Water with Ion-Implanted Silicon Nanowires. Advanced Optical Materials, 2015, 3, 1362-1367.	3.6	6
45	Perovskite Sr-doped LaCrO ₃ as a New p-type Transparent Conducting Oxide. Advanced Materials, 2015, 27, 5191-5195.	11.1	160
46	Electronic and magnetic properties of epitaxial perovskite SrCrO ₃ (0.00-1). Journal of Physics Condensed Matter, 2015, 27, 245605.	0.7	11
47	Growth and surface modification of LaFeO ₃ thin films induced by reductive annealing. Applied Surface Science, 2015, 330, 309-315.	3.1	6
48	Epitaxial Fe/Y ₂ O ₃ interfaces as a model system for oxide-dispersion-strengthened ferritic alloys. Journal of Nuclear Materials, 2015, 457, 352-361.	1.3	11
49	Strain-dependence of the structure and ferroic properties of epitaxial Ni _{1-x} Ti _{1-y} O ₃ thin films grown on sapphire substrates. Thin Solid Films, 2015, 578, 113-123.	0.8	7
50	Radiation damage by light- and heavy-ion bombardment of single-crystal LiNbO ₃ . Optical Materials Express, 2015, 5, 1071.	1.6	9
51	Ag out-surface diffusion in crystalline SiC with an effective SiO ₂ diffusion barrier. Journal of Nuclear Materials, 2015, 464, 294-298.	1.3	3
52	Instability of Hydrogenated TiO ₂ . Journal of Physical Chemistry Letters, 2015, 6, 4627-4632.	2.1	48
53	Impact of lattice mismatch and stoichiometry on the structure and bandgap of (Fe,Cr) ₂ O ₃ epitaxial thin films. Journal of Physics Condensed Matter, 2014, 26, 135005.	0.7	29

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55	Structural perturbations of epitaxial $\hat{I}\pm(Fe_{1-x}V_x)2O_3$ thin films driven by excess oxygen near the surface. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	10
56	Nanoscale phase separation in epitaxial Cr-Mo and Cr-V alloy thin films studied using atom probe tomography: Comparison of experiments and simulation. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	10
57	Effect of thickness on the structure, composition and properties of titanium nitride nano-coatings. <i>Ceramics International</i> , 2014, 40, 5757-5764.	2.3	42
58	Correlation between optical properties and chemical composition of sputter-deposited germanium oxide (GeOx) films. <i>Optical Materials</i> , 2014, 36, 1177-1182.	1.7	31
59	Composition and interface analysis of InGaN/GaN multiquantum-wells on GaN substrates using atom probe tomography. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014, 32, 051209.	0.6	10
60	Defect structure of epitaxial Cr_xV_{1-x} thin films on MgO(001). <i>Thin Solid Films</i> , 2014, 550, 1-9.	0.8	8
61	Stability of nanoclusters in 14YWT oxide dispersion strengthened steel under heavy ion-irradiation by atom probe tomography. <i>Journal of Nuclear Materials</i> , 2014, 455, 41-45.	1.3	46
62	Asymmetry of radiation damage properties in Al-Ti nanolayers. <i>Journal of Nuclear Materials</i> , 2014, 445, 261-271.	1.3	8
63	Angular distribution and recoil effect for 1MeV Au+ ions through a Si3N4 thin foil. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 332, 346-350.	0.6	0
64	Elucidating graphene-ionic liquid interfacial region: A combined experimental and computational study. <i>Nano Energy</i> , 2014, 3, 152-158.	8.2	42
65	Subsurface synthesis and characterization of Ag nanoparticles embedded in MgO. <i>Nanotechnology</i> , 2013, 24, 095707.	1.3	23
66	Microstructure and thermal oxidation behavior of yttria-stabilized hafnia nanostructured coatings deposited on alumina. <i>Surface and Coatings Technology</i> , 2013, 236, 142-148.	2.2	3
67	Radiation stability of nanoclusters in nano-structured oxide dispersion strengthened (ODS) steels. <i>Journal of Nuclear Materials</i> , 2013, 434, 311-321.	1.3	107
68	Multilayered YSZ/GZO films with greatly enhanced ionic conduction for low temperature solid oxide fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1296-1301.	1.3	49
69	Structure and radiation damage behavior of epitaxial Cr Mo alloy thin films on MgO. <i>Journal of Nuclear Materials</i> , 2013, 437, 55-61.	1.3	6
70	Structure, Morphology, and Optical Properties of Amorphous and Nanocrystalline Gallium Oxide Thin Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4194-4200.	1.5	186
71	The Impacts of Cation Stoichiometry and Substrate Surface Quality on Nucleation, Structure, Defect Formation, and Intermixing in Complex Oxide Heteroepitaxy LaCrO_3 on $\text{SrTiO}_3(001)$. <i>Advanced Functional Materials</i> , 2013, 23, 2953-2963.	7.8	48
72	Enzyme-free detection of hydrogen peroxide from cerium oxide nanoparticles immobilized on poly(4-vinylpyridine) self-assembled monolayers. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3443.	2.9	19

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73	Carbon/Ternary Alloy/Carbon Optical Stack on Mylar as an Optical Data Storage Medium to Potentially Replace Magnetic Tape. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8407-8413.	4.0	9
74	Cation intermixing and electronic deviations at the insulating LaCrO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2013, 88, .	1.1	23
75	Coexistence of weak ferromagnetism and polar lattice distortion in epitaxial NiTiO ₃ thin films of the LiNbO ₃ -type structure. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2013, 31, 030603.	0.6	17
76	Multi-instrument characterization of the surfaces and materials in microfabricated, carbon nanotube-templated thin layer chromatography plates. An analogy to "The Blind Men and the Elephant". <i>Surface and Interface Analysis</i> , 2013, 45, 1273-1282.	0.8	52
77	Feasibility of the Detection of Trace Elements in Particulate Matter Using Online High-Resolution Aerosol Mass Spectrometry. <i>Aerosol Science and Technology</i> , 2012, 46, 1187-1200.	1.5	28
78	Formation of zinc oxide films using submicron zinc particle dispersions. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2012, 30, 041805.	0.6	3
79	Pb nanowire formation on Al/lead zirconate titanate surfaces in high-pressure hydrogen. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	10
80	Surface science analysis of GaAs photocathodes following sustained electron beam delivery. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	7
81	A model for phosphosilicate glass deposition via POCl ₃ for control of phosphorus dose in Si. <i>Journal of Applied Physics</i> , 2012, 112, 124912.	1.1	18
82	Radiation-Induced Reduction of Ceria in Single and Polycrystalline Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 361-366.	1.5	26
83	Characterization of amorphous zinc tin oxide semiconductors. <i>Journal of Materials Research</i> , 2012, 27, 2309-2317.	1.2	27
84	Performance of solid oxide fuel cells operated with coal syngas provided directly from a gasification process. <i>Journal of Power Sources</i> , 2012, 214, 142-152.	4.0	29
85	Three-dimensional chemical imaging of embedded nanoparticles using atom probe tomography. <i>Nanotechnology</i> , 2012, 23, 215704.	1.3	18
86	Structural characterization of epitaxial Cr _x Mo _{1-x} alloy thin films. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 095001.	0.7	6
87	Are cluster ion analysis beams good choices for hydrogen depth profiling using time-of-flight secondary ion mass spectrometry?. <i>Surface and Interface Analysis</i> , 2012, 44, 89-93.	0.8	13
88	An investigation of hydrogen depth profiling using ToF-SIMS. <i>Surface and Interface Analysis</i> , 2012, 44, 232-237.	0.8	33
89	Near-surface and bulk behavior of Ag in SiC. <i>Journal of Nuclear Materials</i> , 2012, 420, 123-130.	1.3	29
90	Epitaxial growth of NiTiO ₃ with a distorted ilmenite structure. <i>Thin Solid Films</i> , 2012, 520, 5534-5541.	0.8	24

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91	LaCrO ₃ heteroepitaxy on SrTiO ₃ (001) by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2011, 99, 061904.	1.5	32
92	Photochemical Properties, Composition, and Structure in Molecular Beam Epitaxy Grown Fe-doped and (Fe,N) Codoped Rutile TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2011, 115, 15416-15424.	1.5	28
93	Thickness Dependency of Thin-Film Samaria-Doped Ceria for Oxygen Sensing. <i>IEEE Sensors Journal</i> , 2011, 11, 217-224.	2.4	14
94	Synergy of nuclear and electronic energy losses in ion-irradiation processes: The case of vitreous silicon dioxide. <i>Physical Review B</i> , 2011, 83, .	1.1	142
95	Influence of growth rate on the epitaxial orientation and crystalline quality of CeO ₂ thin films grown on Al ₂ O ₃ (0001). <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	23
96	Using C ₆₀ sputtering to improve detection limit of nitrogen in zinc oxide. <i>Surface and Interface Analysis</i> , 2011, 43, 661-663.	0.8	4
97	Structure of Cr film epitaxially grown on MgO(001). <i>Acta Materialia</i> , 2011, 59, 4274-4282.	3.8	22
98	The Blind Men and the Elephant as a Metaphor for Surface Analysis, as Applied to the Preparation and Analysis of New, Highly Stable Materials for Separations Science. <i>Microscopy and Microanalysis</i> , 2010, 16, 410-411.	0.2	2
99	Thermodynamic instability at the stoichiometric LaAlO ₃ -SrTiO ₃ (001) interface. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 312201.	0.7	77
100	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (TO) – Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5315-5341.	1.9	182
101	Microscopic characterization of carbonaceous aerosol particle aging in the outflow from Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 961-976.	1.9	85
102	Integrated experimental and modeling study of ionic conductivity of scandia-stabilized zirconia thin films. <i>Solid State Ionics</i> , 2010, 181, 367-371.	1.3	9
103	Instability, intermixing and electronic structure at the epitaxial scandia-mathoverflow="scroll"> mml:msub><mml:mrow><mml:mstyle>mathvariant="normal"><mml:mi>LaAlO</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math> interface. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 312201.	1.9	182

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109	High-pressure hydrogen materials compatibility of piezoelectric films. <i>Applied Physics Letters</i> , 2010, 97, 221911.	1.5	10
110	Core-Shell Diamond as a Support for Solid-Phase Extraction and High-Performance Liquid Chromatography. <i>Analytical Chemistry</i> , 2010, 82, 4448-4456.	3.2	55
111	Nonstoichiometric material transfer in the pulsed laser deposition of LaAlO ₃ . <i>Applied Physics Letters</i> , 2010, 97, .	1.5	43
112	Crystallographic dependence of visible-light photoactivity in epitaxial TiO _{2-x} Nanatase and rutile. <i>Physical Review B</i> , 2009, 79, .	1.1	55
113	Suppression of conductivity in Mn-doped ZnO thin films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	42
114	Growth-rate induced epitaxial orientation of CeO ₂ on Al ₂ O ₃ (0001). <i>Applied Physics Letters</i> , 2009, 94, 204101.	1.5	14
115	Morphology, orientation relationship, and stability analysis of Cu ₂ O nanoclusters on SrTiO ₃ (100). <i>Applied Physics Letters</i> , 2009, 95, 053111.	1.5	7
116	Microstructure and ionic conductivity of alternating-multilayer structured Gd-doped ceria and zirconia thin films. <i>Journal of Materials Science</i> , 2009, 44, 2021-2026.	1.7	13
117	Synthesis and Characterization of Bulk, Vitreous Cadmium Germanium Arsenide. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1236-1243.	1.9	10
118	Influence of samaria doping on the resistance of ceria thin films and its implications to the planar oxygen sensing devices. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 380-386.	4.0	26
119	X-ray absorption fine structure and magnetization characterization of the metallic Co component in Co-doped ZnO thin films. <i>Physical Review B</i> , 2009, 79, .	1.1	53
120	Growth and Characterization of Barium Oxide Nanoclusters on YSZ(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 14324-14328.	1.5	15
121	A novel accelerated moisture absorption test and characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1501-1505.	3.8	19
122	On the Relationship between Nonstoichiometry and Passivity Breakdown in Ultrathin Oxides: Combined Depth-Dependent Spectroscopy, Mott-Schottky Analysis, and Molecular Dynamics Simulation Studies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3502-3511.	1.5	30
123	Quantitative Determination of Deuterium Atom Concentration in Zinc Oxide Thin Films by Time-of-Flight Secondary Ion Mass Spectrometry. , 2009, , .	2	
124	Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (TO) – Part 1: Fine particle composition and organic source apportionment. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6633-6653.	1.9	525
125	Oxidation and metal-insertion in molybdenite surfaces: evaluation of charge-transfer mechanisms and dynamics. <i>Geochemical Transactions</i> , 2008, 9, 8.	1.8	21
126	Growth and structure of epitaxial Ce _{0.8} Sm _{0.2} O _{1.9} by oxygen-plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2008, 310, 2450-2456.	0.7	21

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127	Thermal stability and oxidation resistance of TiCrAlYO coatings on SS430 for solid oxide fuel cell interconnect applications. <i>Surface and Coatings Technology</i> , 2008, 202, 4820-4824.	2.2	12
128	Growth and characterization of highly oriented gadolinia-doped ceria (111) thin films on zirconia (111)/sapphire (0001) substrates. <i>Thin Solid Films</i> , 2008, 516, 6088-6094.	0.8	15
129	Electronic properties of H and D doped ZnO epitaxial films. <i>Applied Physics Letters</i> , 2008, 92, 152105.	1.5	23
130	Comparative Analysis of Urban Atmospheric Aerosol by Particle-Induced X-ray Emission (PIXE), Proton Elastic Scattering Analysis (PESA), and Aerosol Mass Spectrometry (AMS). <i>Environmental Science & Technology</i> , 2008, 42, 6619-6624.	4.6	36
131	Characterization of Aerosols Containing Zn, Pb, and Cl from an Industrial Region of Mexico City. <i>Environmental Science & Technology</i> , 2008, 42, 7091-7097.	4.6	143
132	Lack of ferromagnetism inn-type cobalt-doped ZnO epitaxial thin films. <i>New Journal of Physics</i> , 2008, 10, 055010.	1.2	123
133	Photoluminescence of SnO ₂ nanoparticles embedded in Al ₂ O ₃ . <i>Journal Physics D: Applied Physics</i> , 2008, 41, 225102.	1.3	36
134	PIXE ANALYSIS ON AN ANCIENT SCROLL SAMPLE. <i>International Journal of PIXE</i> , 2008, 18, 279-284.	0.4	1
135	MULTI-TECHNIQUE APPROACH TO MEASURE SIZE AND TIME RESOLVED ATMOSPHERIC AND RADIONUCLIDE AEROSOLS. <i>International Journal of PIXE</i> , 2008, 18, 209-218.	0.4	0
136	Conductivity of Oriented Samaria-Doped Ceria Thin Films Grown by Oxygen-Plasma-Assisted Molecular Beam Epitaxy. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, B76.	2.2	13
137	Direct measurement of oxygen incorporation into thin film oxides at room temperature upon ultraviolet photon irradiation. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	5
138	A study of H and D doped ZnO epitaxial films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2008, 104, 053711.	1.1	20
139	Metalorganic chemical vapor deposition of carbon-free ZnO using the bis(2,2,6,6-tetramethyl-3,5-heptanedionato)zinc precursor. <i>Journal of Materials Research</i> , 2007, 22, 1230-1234.	1.2	14
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