

Sarath Witanachchi

List of Publications by Year in descending order

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579
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#	ARTICLE	IF	CITATIONS
1	Unusual Properties of Hydrogen-Bonded Ferroelectrics: The Case of Cobalt Formate. <i>Physical Review Letters</i> , 2022, 128, 077601.	7.8	6
2	Spin Seebeck Effect in Iron Oxide Thin Films: Effects of Phase Transition, Phase Coexistence, And Surface Magnetism. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13468-13479.	8.0	11
3	MnP Films with Desired Magnetic, Magnetocaloric, and Thermoelectric Properties for a Perspective Magneto-Thermo-Electric Cooling Device. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100367.	1.8	1
4	Zinc oxide nanocolumns grown on self-assembled silica nanosphere monolayer templates. <i>Journal of Materials Research</i> , 2021, 36, 361-367.	2.6	0
5	Strain-modulated helimagnetism and emergent magnetic phase diagrams in highly crystalline MnP nanorod films. <i>Physical Review B</i> , 2021, 103, .	3.2	6
6	Photopolymerization-based synthesis of iron oxide nanoparticle embedded PNIPAM nanogels for biomedical applications. <i>Drug Delivery</i> , 2017, 24, 1317-1324. Enhanced ferroelectric polarization in epitaxial SrMnO_3	5.7	20
7			

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19	Influence of microstructure and interfacial strain on the magnetic properties of epitaxial Mn ₃ O ₄ /La _{0.7} Sr _{0.3} MnO ₃ layered-composite thin films. Journal of Applied Physics, 2012, 112, .	2.5	19
20	Photoreflectance spectroscopy study of a strained-layer CdTe/ZnTe superlattice. Journal of Applied Physics, 2011, 110, .	2.5	5
21	Growth of nanoparticulate films of Ca ₃ Co ₄ O ₉ by a microwave plasma-assisted spray process. Journal of Materials Research, 2011, 26, 1940-1946.	2.6	0
22	Enhancement in Ferroelectricity in V-Doped ZnO Thin Film Grown using Laser Ablation. Materials Research Society Symposia Proceedings, 2009, 1199, 80.	0.1	1
23	Investigation of the Pb Depletion in Single and Dual Pulsed Laser Deposited Epitaxial PZT Thin Films and Their Structural Characterization. Materials Research Society Symposia Proceedings, 2009, 1199, 74.	0.1	3
24	Growth of Epitaxial ZnO:Mn/ZnO:V Heterostructures and Ferroelectric-ferromagnetic Characterization. Materials Research Society Symposia Proceedings, 2009, 1161, 2021.	0.1	0
25	Laser-assisted spray pyrolysis process for the growth of TiO ₂ and Fe ₂ O ₃ nanoparticle coatings. Journal of Materials Research, 2007, 22, 649-654.	2.6	4
26	Synthesis and Characterization of Bulk and Thin Film Clathrates for Solid State Power Conversion Applications. , 2006, , .		1
27	Evidence for the physical basis and universality of the elimination of particulates using dual-laser ablation. II. Dynamic time-resolved target reflectivity of metals and film growth of Zn. Journal of Applied Physics, 2002, 91, 1837-1844.	2.5	7
28	Evidence for the physical basis and universality of the elimination of particulates using dual-laser ablation. I. Dynamic time-resolved target melt studies, and film growth of Y ₂ O ₃ and ZnO. Journal of Applied Physics, 2002, 91, 1828-1836.	2.5	13
29	Novel technique for low-jitter dual-laser synchronization in a thin film deposition system. Review of Scientific Instruments, 2001, 72, 2380-2386.	1.3	2
30	Novel continuously tunable high spectral resolution optical filter for two-dimensional imaging. Review of Scientific Instruments, 2001, 72, 2624-2632.	1.3	1
31	A Hollow-Cathode Transient Plasma Process for Thin Film Growth. Materials Research Society Symposia Proceedings, 2000, 616, 235.	0.1	0
32	Highly Ionized Carbon Plasma Generation by Dual-Laser Ablation for Diamond-Like Carbon Film Growth. Materials Research Society Symposia Proceedings, 2000, 617, 361.	0.1	11
33	Effect of initial plasma geometry and temperature on dynamic plume expansion in dual-laser ablation. Applied Physics Letters, 1999, 74, 1546-1548.	3.3	26
34	Room Temperature Growth of Conducting ZnO Films. Materials Research Society Symposia Proceedings, 1997, 485, 185.	0.1	1
35	Optical Detection of Slow Excited Neutrals in Plasma-Assisted Excimer Laser Ablation. Materials Research Society Symposia Proceedings, 1995, 397, 93.	0.1	1
36	Role of temporal delay in dual-laser ablated plumes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1171-1174.	2.1	28

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37	Spot size dependent bifurcation of laser ablated plumes. Journal of Applied Physics, 1995, 78, 4099-4103.	2.5	9
38	Dual laser ablation for particulate free film growth. Applied Physics Letters, 1995, 66, 1469-1471.	3.3	59
39	Evidence that blue luminescence of oxidized porous silicon originates from SiO ₂ . Applied Physics Letters, 1994, 65, 1436-1438.	3.3	162
40	Effect of Rapid Thermal Oxidation on Blue and Red Luminescence Bands of Porous Silicon. Materials Research Society Symposia Proceedings, 1994, 358, 369.	0.1	0
41	Study of ion activation in the in situ low temperature laser deposition of superconducting YBa ₂ Cu ₃ O _{7-x} films. Journal of Applied Physics, 1993, 74, 1205-1208.	2.5	4
42	Spectroscopic Investigations of Laser Ablated Germanium Oxide. Materials Research Society Symposia Proceedings, 1993, 334, 347.	0.1	0
43	An Ion Probe Study of Plasma-Assisted Laser Deposition. Materials Research Society Symposia Proceedings, 1992, 285, 51.	0.1	2
44	Dynamics of ionic enhancement in the plasma-assisted laser deposition of high T _c superconductors. AIP Conference Proceedings, 1992, , .	0.4	0
45	Enhanced Ionization In Activated Reactive Excimer Laser - Ablated Plumes. , 0, , .		0