

# Sarath Witanachchi

## List of Publications by Year in descending order

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45  
papers

542  
citations

687363

13  
h-index

642732

23  
g-index

46  
all docs

46  
docs citations

46  
times ranked

579  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence that blue luminescence of oxidized porous silicon originates from SiO <sub>2</sub> . Applied Physics Letters, 1994, 65, 1436-1438.	3.3	162
2	Dual-laser ablation for particulate-free film growth. Applied Physics Letters, 1995, 66, 1469-1471.	3.3	59
3	Hierarchically Ordered Nano-Heterostructured PZT Thin Films with Enhanced Ferroelectric Properties. Advanced Functional Materials, 2014, 24, 2638-2647.	14.9	30
4	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
5	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
6	Photopolymerization-based synthesis of iron oxide nanoparticle embedded PNIPAM nanogels for biomedical applications. Drug Delivery, 2017, 24, 1317-1324.	5.7	20
7	Influence of microstructure and interfacial strain on the magnetic properties of epitaxial Mn <sub>3</sub> O <sub>4</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> layered-composite thin films. Journal of Applied Physics, 2012, 112, .	2.5	19
8	Challenges in the stoichiometric growth of polycrystalline and epitaxial PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> multiferroic heterostructures using pulsed laser deposition. Journal of Applied Physics, 2012, 112, 064101.	2.5	17
9			

#	ARTICLE	IF	CITATIONS
19	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
20	Enhanced magnetism and ferroelectricity in epitaxial Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> multiferroic heterostructures grown using dual-laser ablation technique. Journal of Applied Physics, 2014, 115, .	2.5	6
21	Strain-modulated helimagnetism and emergent magnetic phase diagrams in highly crystalline MnP nanorod films. Physical Review B, 2021, 103, .	3.2	6
22	Unusual Properties of Hydrogen-Bonded Ferroelectrics: The Case of Cobalt Formate. Physical Review Letters, 2022, 128, 077601.	7.8	6
23	Photoreflectance spectroscopy study of a strained-layer CdTe/ZnTe superlattice. Journal of Applied Physics, 2011, 110, .	2.5	5
24	Study of ion activation in the insitu low-temperature laser deposition of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films. Journal of Applied Physics, 1993, 74, 1205-1208.	2.5	4
25	Laser-assisted spray pyrolysis process for the growth of TiO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> nanoparticle coatings. Journal of Materials Research, 2007, 22, 649-654.	2.6	4
26	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
27	Systematic Study on the Remote Triggering of Thermo-Responsive Hydrogels Using RF Heating of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. Materials Research Society Symposia Proceedings, 2015, 1718, 35-40.	0.1	3
28	An Ion Probe Study of Plasma-Assisted Laser Deposition. Materials Research Society Symposia Proceedings, 1992, 285, 51.	0.1	2
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	Optical Detection of Slow Excited Neutrals in Plasma-Assisted Excimer Laser Ablation. Materials Research Society Symposia Proceedings, 1995, 397, 93.	0.1	1
31	Room Temperature Growth of Conducting ZnO Films. Materials Research Society Symposia Proceedings, 1997, 485, 185.	0.1	1
32	Novel continuously tunable high spectral resolution optical filter for two-dimensional imaging. Review of Scientific Instruments, 2001, 72, 2624-2632.	1.3	1
33	Synthesis and Characterization of Bulk and Thin Film Clathrates for Solid State Power Conversion Applications. , 2006, , .		1
34	Enhancement in Ferroelectricity in V-Doped ZnO Thin Film Grown using Laser Ablation. Materials Research Society Symposia Proceedings, 2009, 1199, 80.	0.1	1
35	Measurements of Polarization Switching in LiNbO <sub>3</sub> -type ZnSnO <sub>3</sub> /ZnO Nanocomposite Thin Films. Materials Research Society Symposia Proceedings, 2015, 1729, 111-116.	0.1	1
36	MnP Films with Desired Magnetic, Magnetocaloric, and Thermoelectric Properties for a Perspective Magneto-Thermo-Electric Cooling Device. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100367.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Enhanced Ionization In Activated Reactive Excimer Laser - Ablated Plumes. , 0, , .		0
38	Dynamics of ionic enhancement in the plasma-assisted laser deposition of high Tc superconductors. AIP Conference Proceedings, 1992, , .	0.4	0
39	Spectroscopic Investigations of Laser Ablated Germanium Oxide. Materials Research Society Symposia Proceedings, 1993, 334, 347.	0.1	0
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	A Hollow-Cathode Transient Plasma Process for Thin Film Growth. Materials Research Society Symposia Proceedings, 2000, 616, 235.	0.1	0
42	Growth of Epitaxial ZnO:Mn/ZnO:V Heterostructures and Ferroelectric-ferromagnetic Characterization. Materials Research Society Symposia Proceedings, 2009, 1161, 2021.	0.1	0
43	Growth of nanoparticulate films of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> by a microwave plasma-assisted spray process. Journal of Materials Research, 2011, 26, 1940-1946.	2.6	0
44	Ferroelectricity in Strategically Synthesized Pb-free LiNbO <sub>3</sub> -type ZnSnO <sub>3</sub> Nanostructure Arrayed Thick Films. Materials Research Society Symposia Proceedings, 2015, 1729, 105-110.	0.1	0
45	Zinc oxide nanocolumns grown on self-assembled silica nanosphere monolayer templates. Journal of Materials Research, 2021, 36, 361-367.	2.6	0