

# Subbiah Kasiviswanathan

## List of Publications by Year in descending order

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72  
papers

550  
citations

686830

13  
h-index

752256

20  
g-index

72  
all docs

72  
docs citations

72  
times ranked

729  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct current magnetron sputtered In <sub>2</sub> O <sub>3</sub> films as tunnel barriers. Journal of Applied Physics, 1994, 75, 2572-2577.	1.1	49
2	Correlation of Mn charge state with the electrical resistivity of Mn doped indium tin oxide thin films. Applied Physics Letters, 2010, 97, .	1.5	37
3	A hot probe setup for the measurement of Seebeck coefficient of thin wires and thin films using integral method. Review of Scientific Instruments, 2008, 79, 024302.	0.6	27
4	Characterization of silver selenide thin films grown on Cr-covered Si substrates. Surface and Interface Analysis, 2009, 41, 170-178.	0.8	22
5	Magnetic properties of ball-milled TbFe <sub>2</sub> and TbFe <sub>2</sub> B. Bulletin of Materials Science, 2004, 27, 169-173.	0.8	21
6	Characterization of stepwise flash evaporated CuIn <sub>3</sub> Se <sub>5</sub> films. Solar Energy Materials and Solar Cells, 2005, 85, 521-533.	3.0	21
7	Growth and characterization of stepwise flash evaporated CuInTe <sub>2</sub> thin films. Solar Energy Materials and Solar Cells, 2009, 93, 188-192.	3.0	18
8	Plasmon resonance mediated enhancement in Fabry-Pérot cavity modes. Applied Physics Letters, 2014, 104, 241112.	1.5	18
9	Two-prism setup for surface plasmon resonance studies. Review of Scientific Instruments, 2005, 76, 033103.	0.6	17
10	Observation of deviation of electronic behaviour of indium tin oxide film at grain boundary using Scanning Tunneling Microscope. Solid State Communications, 1997, 101, 831-834.	0.9	16
11	A comparative study of CuInSe <sub>2</sub> and CuIn <sub>3</sub> Se <sub>5</sub> films using transmission electron microscopy, optical absorption and Rutherford backscattering spectrometry. Solar Energy Materials and Solar Cells, 2005, 88, 281-292.	3.0	16
12	Micro-Raman spectroscopy studies of bulk and thin films of CuInTe <sub>2</sub> . Semiconductor Science and Technology, 2009, 24, 075019.	1.0	15
13	Thermal stability of silver selenide thin films on silicon formed from the solid state reaction of Ag and Se films. Thin Solid Films, 2006, 515, 2059-2065.	0.8	14
14	Characterization of stepwise flash-evaporated CuInSe <sub>2</sub> films. Vacuum, 2004, 75, 39-49.	1.6	13
15	Growth and Rutherford backscattering spectrometry study of direct current sputtered indium oxide films. Thin Solid Films, 2005, 488, 26-33.	0.8	13
16	Transparent ITO-Mn:ITO Thin-Film Thermocouples. IEEE Sensors Journal, 2009, 9, 809-813.	2.4	13
17	Observation of subwavelength localization of cavity plasmons induced by ultra-strong exciton coupling. Applied Physics Letters, 2017, 110, .	1.5	13
18	Ion beam studies on reactive DC sputtered manganese doped indium tin oxide thin films. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1421-1424.	0.6	12

#	ARTICLE	IF	CITATIONS
19	Optical and photoluminescence studies of gold nanoparticles embedded ZnO thin films. Thin Solid Films, 2009, 518, 1399-1401.	0.8	12
20	Magnetic and electrical properties of Ho <sub>0.85</sub> Tb <sub>0.15</sub> Fe <sub>2</sub> xMnx (0, 0.5, 1.0, 1.5). Journal of Magnetism and Magnetic Materials, 2004, 277, 175-180.	1.0	11
21	Enhanced short wave IR third order nonlinearity of gold nanoparticle embedded ZnO thin films. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2226.	0.9	11
22	Spin correlations and magnetic order in Co-Ga alloys: A comprehensive study. Journal of Alloys and Compounds, 2015, 649, 1011-1018.	2.8	10
23	Atomic force microscopy study of thermal stability of silver selenide thin films grown on silicon. Applied Surface Science, 2006, 252, 7975-7982.	3.1	9
24	Structural, optical and compositional studies of stepwise flash evaporated CuIn <sub>3</sub> Te <sub>5</sub> films. Materials Chemistry and Physics, 2007, 101, 118-123.	2.0	9
25	Quasi-particle tunneling in zinc doped yttrium barium copper oxide. Solid State Communications, 1989, 71, 475-478.	0.9	8
26	Structure of melt-quenched AgIn <sub>3</sub> Te <sub>5</sub> . Powder Diffraction, 2011, 26, 248-255.	0.4	8
27	Evolution of ferromagnetic interactions from cluster spin glass state in Co-Ga alloy. Journal of Magnetism and Magnetic Materials, 2016, 418, 158-162.	1.0	8
28	Size-dependent persistent photocurrent and its origin in dc sputtered indium oxide films under UV and sub-band gap illuminations. Journal of Applied Physics, 2017, 121, 185303.	1.1	8
29	Preparation and characterization of the pseudobinary system Cu <sub>1-x</sub> Ag <sub>x</sub> InTe <sub>2</sub> . Journal of Materials Science Letters, 1986, 5, 912-914.	0.5	7
30	Single particle tunneling studies on Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1</sub> Cu <sub>2</sub> O <sub>y</sub> . Solid State Communications, 1992, 81, 81-84.	0.9	7
31	Role of oxygen vacancies in the high-temperature thermopower of indium oxide and indium tin oxide films. Semiconductor Science and Technology, 2009, 24, 025028.	1.0	7
32	Spectral response of nanocrystalline ZnO films embedded with Au nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3317.	0.9	7
33	Growth and ion beam study of DC sputtered indium oxide films. Nuclear Instruments & Methods in Physics Research B, 2005, 229, 406-412.	0.6	6
34	Localized Surface Plasmon Resonance in Au Nanoparticles Embedded dc Sputtered ZnO Thin Films. Journal of Nanoscience and Nanotechnology, 2015, 15, 1805-1814.	0.9	5
35	Hot electron mediated enhancement in the decay rates of persistent photocurrent in gold nanoparticles embedded indium oxide films. Applied Physics Letters, 2019, 114, 211103.	1.5	5
36	Tunneling studies on NdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> y. Physica C: Superconductivity and Its Applications, 1992, 200, 301-306.	0.6	3

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37	Surface structure of silver thin films on In <sub>2</sub> O <sub>3</sub> :Sn and Al <sub>2</sub> O <sub>3</sub> . Bulletin of Materials Science, 1996, 19, 411-416.	0.8	3
38	Deposition of Ag <sub>0.5</sub> Cu <sub>0.5</sub> InTe <sub>2</sub> thin films using a stepwise evaporation method. Materials Research Bulletin, 1997, 32, 737-742.	2.7	3
39	Growth and SIMS study of d.c.-sputtered indium oxide films on silicon. Surface and Interface Analysis, 2005, 37, 281-287.	0.8	3
40	Transmission electron microscopy and Rutherford backscattering spectrometry studies of Ag <sub>2</sub> Te films formed from Ag-Te thin film couples. Crystal Research and Technology, 2006, 41, 59-63.	0.6	3
41	Monitoring plasma treatment of thin films by surface plasmon resonance. Review of Scientific Instruments, 2014, 85, 035001.	0.6	3
42	Anomalous Magnetic and Electrical Transport Behavior in Intermetallic Co <sub>58.5</sub> Ga <sub>41.5</sub> . IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
43	Effective Medium-Based Plasmonic Waveguides for Tailoring Dispersion. IEEE Photonics Technology Letters, 2015, 27, 1965-1968.	1.3	3
44	Effective medium based optical analysis with finite element method simulations to study photochromic transitions in Ag-TiO <sub>2</sub> nanocomposite films. Journal of Applied Physics, 2016, 119, 123104.	1.1	3
45	Growth and characterization of Au nanoparticles embedded In <sub>2</sub> O <sub>3</sub> composite films. Thin Solid Films, 2017, 622, 78-83.	0.8	3
46	Tailoring plasmonic properties of metal nanoparticle-embedded dielectric thin films: the sandwich method of preparation. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	3
47	Electrical conduction in gold nanoparticles embedded indium oxide films: a crossover from metallic to insulating behavior. Journal of Physics Condensed Matter, 2019, 31, 505702.	0.7	3
48	Surface characterization of Al-Cu-Fe thin films by scanning tunneling microscopy and scanning tunneling spectroscopy. Applied Surface Science, 1999, 147, 140-145.	3.1	2
49	SIMS study of effect of Cr adhesion layer on the thermal stability of silver selenide thin films on Si. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1480-1485.	0.6	2
50	Thermopower and optical studies on undoped and manganese doped indium tin oxide films. Thin Solid Films, 2009, 518, 1390-1393.	0.8	2
51	Structure of Melt Quenched Chalcogen rich CuInSeTe. AIP Conference Proceedings, 2011, , .	0.3	2
52	Giant magnetoresistance in the cluster glass regime of Co-Ga alloys. AIP Advances, 2016, 6, .	0.6	2
53	Studies on interface between In <sub>2</sub> O <sub>3</sub> and CuInTe <sub>2</sub> thin films. Applied Surface Science, 2017, 418, 388-392.	3.1	2
54	Effect of interparticle interaction on the plasmon resonance of silver nanoparticles. AIP Conference Proceedings, 2018, , .	0.3	2

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55	AC Conductivity of Amorphous CuInTe <sub>2</sub> Thin Films. Physica Status Solidi (B): Basic Research, 1997, 203, 397-400.	0.7	1
56	Characterization of interface between CuInSe <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> . Journal of Physics and Chemistry of Solids, 2005, 66, 1928-1932.	1.9	1
57	SYNTHESIS AND PIXE CHARACTERIZATION OF CuInSe <sub>2</sub> AND CuIn <sub>3</sub> Se <sub>5</sub> . International Journal of PIXE, 2006, 16, 127-136.	0.4	1
58	GOLD NANOPARTICLES-EMBEDDED TRANSPARENT CONDUCTING OXIDES: PREPARATION, CHARACTERIZATION, AND TUNING OF THE OPTICAL PROPERTIES. International Journal of Nanoscience, 2011, 10, 155-159.	0.4	1
59	Studies on melt-quenched AgInSbTe system. , 2013, , .		1
60	Low temperature magnetic and electrical transport behavior of Co <sub>58.5</sub> Ga <sub>41.5</sub> alloy. AIP Conference Proceedings, 2015, , .	0.3	1
61	Evidence for reentrant spin glass behavior in transition metal substituted Co-Ga alloys near critical concentration. Journal of Magnetism and Magnetic Materials, 2018, 451, 327-335.	1.0	1
62	Resistivity, thermopower and single-particle tunneling studies on some zinc-doped yttrium barium copper oxide superconductors. Phase Transitions, 1989, 19, 87-95.	0.6	0
63	Tunnelling studies in BiSrCaCuO:Pb break junctions. Ceramics International, 1996, 22, 119-122.	2.3	0
64	Effective Dielectric Function of AuNPs-ZnO Composite Thin Films from Bergman Formalism. , 2011, , .		0
65	GOLD NANOPARTICLES EMBEDDED ZINC OXIDE FILMS AS POSSIBLE OPTICAL FILTERS. International Journal of Nanoscience, 2011, 10, 601-604.	0.4	0
66	Choice of metal heaters for measuring thermal conductivity using 3 $\dot{\text{I}}$ % method. , 2013, , .		0
67	Metal-dielectric composite for dispersion free optics. , 2013, , .		0
68	SPR: A promising platform for thermal transport studies. , 2013, , .		0
69	Morphological changes of supported gold nanoparticles in AuIn <sub>2</sub> O <sub>3</sub> /Si: An atomic force microscopic study. , 2013, , .		0
70	Localized surface plasmon effects in ZnO sandwiched gold nanoparticles under fs pumping. , 2015, , .		0
71	Anomalous magnetic and electrical transport behaviour in intermetallic Co <sub>58.5</sub> Ga <sub>41.5</sub> . , 2015, , .		0
72	The effect of humidity on persistent photocurrent in indium oxide thin film. AIP Conference Proceedings, 2018, , .	0.3	0