

Thirumany Sritharan

List of Publications by Year in descending order

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96
papers

3,890
citations

109321

35
h-index

128289

60
g-index

97
all docs

97
docs citations

97
times ranked

5607
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Si Nanorods and Discrete Nanophases by Axial Diffusion of Si from Substrate into Au and AuPt Nanoalloy Nanorods. <i>Nanomaterials</i> , 2020, 10, 68.	4.1	0
2	The Self-Passivation Mechanism in Degradation of BiVO ₄ Photoanode. <i>IScience</i> , 2019, 19, 976-985.	4.1	40
3	A Source of Error in Photoanode Evaluation. <i>Joule</i> , 2019, 3, 305-310.	24.0	1
4	Superexchange Effects on Oxygen Reduction Activity of Edge-Shared [Co _x Mn _{1-x} O ₆] Octahedra in Spinel Oxide. <i>Advanced Materials</i> , 2018, 30, 1705407.	21.0	142
5	Scientific and Technological Assessment of Iron Pyrite for Use in Solar Devices. <i>Energy Technology</i> , 2018, 6, 8-20.	3.8	21
6	Scale-Up of BiVO ₄ Photoanode for Water Splitting in a Photoelectrochemical Cell: Issues and Challenges. <i>Energy Technology</i> , 2018, 6, 100-109.	3.8	49
7	Recent progress in iron oxide based photoanodes for solar water splitting. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 473002.	2.8	44
8	Phosphate tuned copper electrodeposition and promoted formic acid selectivity for carbon dioxide reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11905-11916.	10.3	46
9	New insights into the photocatalytic activity of 3-D core-shell P25@silica nanocomposites: impact of mesoporous coating. <i>Dalton Transactions</i> , 2017, 46, 4994-5002.	3.3	26
10	A Multisite Strategy for Enhancing the Hydrogen Evolution Reaction on a Nano-Pd Surface in Alkaline Media. <i>Advanced Energy Materials</i> , 2017, 7, 1701129.	19.5	108
11	Improved Charge Separation in WO ₃ /CuWO ₄ Composite Photoanodes for Photoelectrochemical Water Oxidation. <i>Materials</i> , 2016, 9, 348.	2.9	36
12	On the origin of photocarrier losses in Iron Pyrite nanocubes: Charge carrier dynamics and electrical transport study. , 2016, , .		0
13	Valence Change Ability and Geometrical Occupation of Substitution Cations Determine the Pseudocapacitance of Spinel Ferrite XFe ₂ O ₄ (X = Mn, Co, Ni, Fe). <i>Chemistry of Materials</i> , 2016, 28, 4129-4133.	6.7	98
14	Origin of Photocarrier Losses in Iron Pyrite (FeS ₂) Nanocubes. <i>ACS Nano</i> , 2016, 10, 4431-4440.	14.6	56
15	Reaction Kinetics for Lead-Free 0.94(K _{0.5} Na _{0.5})NbO ₃ –0.06LiNbO ₃ Ceramic Synthesis with Ultrasonic Irradiation. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, E43.	2.1	6
16	Evolution of nanoplate morphology, structure and chemistry during synthesis of pyrite by a hot injection method. <i>RSC Advances</i> , 2014, 4, 16489.	3.6	19
17	Ultrathin MnO ₂ nanoflakes as efficient catalysts for oxygen reduction reaction. <i>Chemical Communications</i> , 2014, 50, 7885.	4.1	113
18	Iron Pyrite Thin Film Counter Electrodes for Dye-Sensitized Solar Cells: High Efficiency for Iodine and Cobalt Redox Electrolyte Cells. <i>ACS Nano</i> , 2014, 8, 10597-10605.	14.6	138

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19	Phase-strain-induced monoclinic $M\text{B}_3$ epitaxial thin films on a PbScO_3 substrate. <i>Journal of Applied Physics</i> , 2013, 114, 044102.	3.2	40
20	Improving Photocatalytic H_2 Evolution of TiO_2 via Formation of $\{001\}$ Quasi-Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22894-22902.	3.1	38
21	Interfacial enhancement of carbon fiber composites by poly(amido amine) functionalization. <i>Composites Science and Technology</i> , 2013, 74, 37-42.	7.8	169
22	Investigating the Multiple Roles of Polyvinylpyrrolidone for a General Methodology of Oxide Encapsulation. <i>Journal of the American Chemical Society</i> , 2013, 135, 9099-9110.	13.7	181
23	Tuning the interfacial property of hierarchical composites by changing the grafting density of carbon nanotube using 1,3-propodiamine. <i>Composites Science and Technology</i> , 2013, 85, 36-42.	7.8	67
24	Periodic elastic nanodomains in ultrathin tetragonal-like BiFeO_3 films. <i>Physical Review B</i> , 2013, 88, .	3.2	22
25	Magneto-optical Kerr effect investigation on magnetoelectric coupling in ferromagnetic/antiferroelectric multilayer thin film structures. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	4
26	Temperature-driven evolution of hierarchical nanodomain structure in tetragonal-like BiFeO_3 films. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	9
27	Coexistence of ferroelectric vortex domains and charged domain walls in epitaxial BiFeO_3 film on (110)O GdScO_3 substrate. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	33
28	Electric-field control of magnetic properties of CoFe_2O_4 films on $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ PbTiO_3 substrate. <i>Thin Solid Films</i> , 2012, 522, 420-424.	1.8	11
29	Chemically and uniformly grafting carbon nanotubes onto carbon fibers by poly(amidoamine) for enhancing interfacial strength in carbon fiber composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 5928.	6.7	168
30	Study of strain effect on in-plane polarization in epitaxial BiFeO_3 thin films using planar electrodes. <i>Physical Review B</i> , 2012, 86, .	3.2	49
31	Electromechanical properties and fatigue of antiferroelectric (Pb, La) (Zr, Sn, Ti) O_3 thin film cantilevers fabricated by micromachining. <i>Sensors and Actuators A: Physical</i> , 2012, 187, 127-131.	4.1	17
32	Ferroelastic Strain Induced Antiferroelectric \leftrightarrow Ferroelectric Phase Transformation in Multilayer Thin Film Structures. <i>Advanced Functional Materials</i> , 2012, 22, 4159-4164.	14.9	16
33	Abnormal Poisson's ratio and Linear Compressibility in Perovskite Materials. <i>Advanced Materials</i> , 2012, 24, 4170-4174.	21.0	45
34	Nonlinear dielectric thin films for high-power electric storage with energy density comparable with electrochemical supercapacitors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1968-1974.	3.0	188
35	Low \leftrightarrow Symmetry Monoclinic Phases and Polarization Rotation Path Mediated by Epitaxial Strain in Multiferroic BiFeO_3 Thin Films. <i>Advanced Functional Materials</i> , 2011, 21, 133-138.	14.9	229
36	Nanoscale phase separation in quasi-uniaxial and biaxial strained multiferroic thin films. <i>Applied Physics Letters</i> , 2011, 99, 132905.	3.3	9

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55	An XPS study of Al ₂ Au and AlAu ₄ intermetallic oxidation. Applied Surface Science, 2007, 253, 6217-6221.	6.1	24
56	Interface transformations in thin film aluminum-gold diffusion couples. Thin Solid Films, 2007, 515, 5454-5461.	1.8	15
57	Nd-substituted SrBi ₂ Ta ₂ O ₉ ferroelectric thin films prepared by radio frequency magnetron sputtering. Thin Solid Films, 2007, 515, 8371-8375.	1.8	9
58	Cyclic loading as an extended nanoindentation technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 14-18.	5.6	42
59	Twin-microstructure enhanced magnetoresistance in La _{0.67} Ba _{0.33} MnO ₃ oxides. Solid State Communications, 2006, 139, 506-510.	1.9	3
60	Effect of porosity and adhesion promoter layer on adhesion energy of nanoporous inorganic low- κ . Thin Solid Films, 2006, 504, 213-217.	1.8	5
61	Synthesis of a new electroceramic by replacement of Bi in strontium bismuth niobate. Journal of Electroceramics, 2006, 16, 321-325.	2.0	4
62	Isolated and Grouped Co Spins in Polycrystalline Zn _{1-x} Co _x O Oxides. Advances in Science and Technology, 2006, 52, 27-30.	0.2	0
63	Ruthenium Barrier/Seed Layer for Cu/Low- κ Metallization. Journal of the Electrochemical Society, 2006, 153, J41.	2.9	58
64	Room-temperature Ferromagnetic Zn _{0.95} Co _{0.05} O Diluted Magnetic Semiconducting Thin Films by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2006, 928, 1.	0.1	0
65	Adhesion study of low- κ /Si system using 4-point bending and nanoscratch test. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 121, 193-198.	3.5	40
66	Ordering and grain growth in nanocrystalline Fe ₇₅ Si ₂₅ alloy. Acta Materialia, 2005, 53, 1233-1239.	7.9	54
67	Mechanochemical activation of strontium bismuth tantalate synthesis. Scripta Materialia, 2005, 53, 1197-1199.	5.2	11
68	Adhesion study of tetra methyl cyclo tetra siloxanes (TMCTS) and tri methyl silane (3MS)-based low- κ films. Microelectronic Engineering, 2005, 81, 35-43.	2.4	2
69	Samarium modified strontium bismuth niobate: Synthesis and ferroelectro-magnetic property evaluation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 123, 222-226.	3.5	20
70	Effects of ternary alloying on mechano-synthesis and nano-crystal stability of an iron-silicon alloy. Journal of Alloys and Compounds, 2005, 390, 82-87.	5.5	7
71	Tensile fracture of tin-lead solder joints in copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 379, 277-285.	5.6	50
72	Production and annealing of nanocrystalline Fe-Si and Fe-Si-Al alloy powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 371, 210-216.	5.6	53

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73	Study of piezoelectric, magnetic and magnetoelectric measurements on SrBi ₃ Nb ₂ FeO ₁₂ ceramic. Ceramics International, 2004, 30, 1431-1433.	4.8	24
74	Processing and study of dielectric and ferroelectric nature of BiFeO ₃ modified SrBi ₂ Nb ₂ O ₉ . Ceramics International, 2004, 30, 1427-1430.	4.8	18
75	Effects of solid-state annealing on the interfacial intermetallics between tin-lead solders and copper. Journal of Electronic Materials, 2003, 32, 939-947.	2.2	30
76	Properties of hemispherical cups drawn using a flexible tool. Journal of Materials Processing Technology, 2003, 134, 310-317.	6.3	10
77	Self-propagating high temperature synthesis of AlFeSi intermetallic compound. Intermetallics, 2003, 11, 279-281.	3.9	11
78	Reaction Sintering of an Aluminium-Based Ternary Intermetallic and its Properties. Materials Science Forum, 2003, 426-432, 1855-1860.	0.3	0
79	Textured growth of Cu/Sn intermetallic compounds. Journal of Electronic Materials, 2002, 31, 1250-1255.	2.2	11
80	Exothermic reactions in powder mixtures of Al, Fe and Si. Materials Letters, 2001, 51, 455-460.	2.6	6
81	Interface reaction between copper and molten tin-lead solders. Acta Materialia, 2001, 49, 2481-2489.	7.9	154
82	Synthesis of ternary intermetallics by exothermic reaction. Journal of Materials Processing Technology, 2001, 113, 469-473.	6.3	9
83	A feature of the reaction between Al and SiC particles in an MMC. Materials Characterization, 2001, 47, 75-77.	4.4	30
84	Synthesis of aluminium-iron-silicon intermetallics by reaction of elemental powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 209-217.	5.6	15
85	Morphology of β -AlFeSi intermetallic in Al-7Si alloy castings. Materials Science and Technology, 1998, 14, 738-742.	1.6	38
86	Phenomena in interrupted tensile tests of heat treated aluminium alloy 6061. Acta Materialia, 1997, 45, 3155-3161.	7.9	26
87	Effects of processing parameters on the performance of Al grain refinement master alloys Al-Ti and Al-B in small ingots. Journal of Materials Processing Technology, 1997, 66, 253-257.	6.3	41
88	Influence of titanium to boron ratio on the ability to grain refine aluminium-silicon alloys. Journal of Materials Processing Technology, 1997, 63, 585-589.	6.3	78
89	Effect of Al-Ti and Al-B master alloy addition on the grain refinement of stationary arc-melted Al weld. Journal of Materials Science Letters, 1996, 15, 1886.	0.5	1
90	Further comments on the interpretation of creep data obtained at low stresses and intermediate temperatures. Materials Science and Engineering, 1985, 69, L1-L3.	0.1	1

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91	On the applicability of a phenomenological relationship to creep at low stresses and intermediate temperatures. <i>Materials Science and Engineering</i> , 1983, 61, 1-5.	0.1	7
92	Creep of type 316 stainless steel at low stresses. <i>Metal Science</i> , 1981, 15, 365-368.	0.7	10
93	The creep of type 304 stainless steel at low stresses. <i>Acta Metallurgica</i> , 1980, 28, 1633-1639.	2.1	31
94	On the transition between dislocation and diffusion creep. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1980, 41, 871-882.	0.6	17
95	The creep of Beta-Cobalt at low stresses. <i>Acta Metallurgica</i> , 1979, 27, 1293-1300.	2.1	52
96	The Self-Passivation Mechanism in Degradation of BiVO ₄ Photoanode. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0