

Suresh Perumal

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39
papers

1,475
citations

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h-index

38
g-index

44
ext. papers

1,795
ext. citations

6.1
avg, IF

5.01
L-index

#	Paper	IF	Citations
39	High Thermoelectric Performance and Enhanced Mechanical Stability of p-type Ge _{1-x} Sb _x Te. <i>Chemistry of Materials</i> , 2015 , 27, 7171-7178	9.6	213
38	The origin of low thermal conductivity in Sn _{1-x} Sb _x Te: phonon scattering via layered intergrowth nanostructures. <i>Energy and Environmental Science</i> , 2016 , 9, 2011-2019	35.4	177
37	High performance thermoelectric materials and devices based on GeTe. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7520-7536	7.1	144
36	Effect of doping concentration on the structural and optical properties of pure and tin doped zinc oxide thin films by nebulizer spray pyrolysis (NSP) technique. <i>Superlattices and Microstructures</i> , 2012 , 52, 500-513	2.8	110
35	Realization of High Thermoelectric Figure of Merit in GeTe by Complementary Co-doping of Bi and In. <i>Joule</i> , 2019 , 3, 2565-2580	27.8	96
34	Reduction of thermal conductivity through nanostructuring enhances the thermoelectric figure of merit in Ge _{1-x} Bi _x Te. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 125-132	6.8	95
33	Low Thermal Conductivity and High Thermoelectric Performance in Sb and Bi Codoped GeTe: Complementary Effect of Band Convergence and Nanostructuring. <i>Chemistry of Materials</i> , 2017 , 29, 10426-10433	9.6	83
32	Germanium Chalcogenide Thermoelectrics: Electronic Structure Modulation and Low Lattice Thermal Conductivity. <i>Chemistry of Materials</i> , 2018 , 30, 5799-5813	9.6	76
31	Ultrahigh Thermoelectric Figure of Merit and Enhanced Mechanical Stability of p-type AgSb _{1-x} Zn _x Te ₂ . <i>ACS Energy Letters</i> , 2017 , 2, 349-356	20.1	49
30	Ultrahigh Average Thermoelectric Figure of Merit, Low Lattice Thermal Conductivity and Enhanced Microhardness in Nanostructured (GeTe) (AgSbSe). <i>Chemistry - A European Journal</i> , 2017 , 23, 7438-7443	4.8	48
29	Influence of film thickness on the properties of sprayed ZnO thin films for gas sensor applications. <i>Superlattices and Microstructures</i> , 2014 , 71, 238-249	2.8	44
28	Deposition and characterization of pure and Cd doped SnO ₂ thin films by the nebulizer spray pyrolysis (NSP) technique. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 825-832	4.3	41
27	Role of substrate temperature on the properties of Na-doped ZnO thin film nanorods and performance of ammonia gas sensors using nebulizer spray pyrolysis technique. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 387-391	5.7	34
26	NiO nanoflakes: Effect of anions on the structural, optical, morphological and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 441, 787-794	2.8	23
25	Thermoelectric properties of chromium disilicide prepared by mechanical alloying. <i>Journal of Materials Science</i> , 2013 , 48, 6018-6024	4.3	23
24	Nanostructured Gd _x Zn _{1-x} O thin films by nebulizer spray pyrolysis technique: Role of doping concentration on the structural and optical properties. <i>Superlattices and Microstructures</i> , 2013 , 59, 47-59	2.8	22
23	Evaluation of extracts of <i>Borassus flabellifer</i> dust as green inhibitors for aluminium corrosion in acidic media. <i>Materials Science in Semiconductor Processing</i> , 2019 , 104, 104674	4.3	19

22	Low thermal conductivity of endogenous manganese silicide/Si composites for thermoelectricity. <i>Materials Letters</i> , 2015 , 155, 41-43	3.3	17
21	Nanostructured $Ce_xZn_{1-x}O$ thin films: Influence of Ce doping on the structural, optical and electrical properties. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 170-176	5.7	17
20	Effect of Composition on Thermoelectric Properties of Polycrystalline $CrSi_2$. <i>Journal of Electronic Materials</i> , 2013 , 42, 1042-1046	1.9	17
19	Synthesis and functional properties of nanostructured Gd-doped WO_3/TiO_2 composites for sensing applications. <i>Materials Science in Semiconductor Processing</i> , 2020 , 105, 104732	4.3	16
18	Thermal conductivity of $FeSi_2/Si$ endogenous composites formed by the eutectoid decomposition of Fe_2Si_5 . <i>Journal of Materials Science</i> , 2015 , 50, 6713-6718	4.3	15
17	Expired Drugs: Environmentally Safe Inhibitors for Aluminium Corrosion in 1 M H_2SO_4 . <i>Journal of Bio- and Tribo-Corrosion</i> , 2018 , 4, 1	2.9	15
16	Effect of co-substitution of Mn and Al on thermoelectric properties of chromium disilicide. <i>Journal of Materials Science</i> , 2013 , 48, 227-231	4.3	14
15	Lanthanum doped copper oxide nanoparticles enabled proficient bi-functional electrocatalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 24684-24696	6.7	14
14	Discovery of carbon nanotubes in sixth century BC potteries from Keeladi, India. <i>Scientific Reports</i> , 2020 , 10, 19786	4.9	12
13	The effect of potential on electrodeposited CdSe thin films. <i>Materials Science in Semiconductor Processing</i> , 2012 , 15, 174-180	4.3	11
12	Agarose as an Efficient Inhibitor for Aluminium Corrosion in Acidic Medium: An Experimental and Theoretical Study. <i>Journal of Bio- and Tribo-Corrosion</i> , 2017 , 3, 1	2.9	7
11	Enhanced thermoelectric figure of merit in nano-structured Si dispersed higher manganese silicide. <i>Materials Science in Semiconductor Processing</i> , 2019 , 104, 104649	4.3	5
10	Synthesis, Characterization and Inhibition Performance of Schiff Bases for Aluminium Corrosion in 1 M H_2SO_4 Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020 , 6, 1	2.9	5
9	Thermoelectric Properties of Nano Structured $CrSi_2Al_x$ 2011 ,		3
8	Experimental Investigation of Thermoelectric Power Generator Using D-Mannitol Phase Change Material for Transient Heat Recovery. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 061005		2
7	Effect of Refractory Tantalum Metal Filling on the Microstructure and Thermoelectric Properties of $CoSb$ Skutterudites. <i>ACS Omega</i> , 2021 , 6, 3900-3909	3.9	2
6	Enhanced Refrigeration Capacity of Rare-Earth-Free Ni-Co-Mn-In-Si Heusler Alloys for Magnetic Refrigerants. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 091009	2	2
5	Nanocomposites of GO/D-Mannitol Assisted Thermoelectric Power Generator for Transient Waste Heat Recovery. <i>Journal of Nanomaterials</i> , 2022 , 2022, 1-9	3.2	2

4	Crystal growth, surface morphology, mechanical and thermal properties of UV-nonlinear optical crystal: Mercury cadmium chloride thiocyanate (MCCTC) single crystal. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 872, 012175	0.4	1
3	Dysprosium doped copper oxide (Cu _{1-x} Dy _x O) nanoparticles enabled bifunctional electrode for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 27585-27596	6.7	1
2	Cu _{1-x} RE _x O (RE = La, Dy) decorated dendritic CuS nanoarrays for highly efficient splitting of seawater into hydrogen and oxygen fuels. <i>Applied Materials Today</i> , 2021 , 24, 101079	6.6	0
1	Thermoelectric properties of p-type Si-rich higher manganese silicide for mid-temperature applications. <i>Materials Letters</i> , 2021 , 302, 130444	3.3	0