Smita A Acharya

List of Publications by Year
in descending order

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54	935	430874	454955
papers	citations	18	30
		h-index	g-index

55	55	55	1348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lead free single â€“ double perovskite composite towards room temperature multiferroicity. Materials Chemistry and Physics, 2022, 275, 125326.	4.0	4
2	Oxygen vacancies disordering and oxy-ion diffusion mechanism in doped ceria electrolytes under IT-SOFC operating conditions. Journal of Solid State Electrochemistry, 2022, 26, 133.	2.5	4
3	Polyvinyl alcohol/polybenzimidazole/BaZrO₃â€“based hybrid nanocomposite: as a new proton conducting membrane for proton exchange membrane fuel cells. Ferroelectrics, 2022, 587, 118-126.	0.6	0
4	Preparation and characterization of Sr-doped LaFeO₃. Ferroelectrics, 2022, 587, 139-149.	0.6	0
5	Modulation of electric and magnetic ordering in GdFeO₃ orthoferrites system by Ce-doping. Ferroelectrics, 2022, 587, 158-173.	0.6	1
6	Effect of Pr doping on structural, electrical and dielectric properties of ceria based system as electrolyte for electrochemical device. Ferroelectrics, 2022, 588, 145-156.	0.6	1
7	Modulation of dielectric and magnetic ordering of DyFeO₃ system with Fe-site doping. Ferroelectrics, 2022, 588, 31-44.	0.6	0
8	Synthesis of pure phase SmFeO₃ orthoferrites via self-propagating sol-gel combustion synthesis and study of Ce doping effect on their ferroelectric properties. Ferroelectrics, 2022, 588, 157-163.	0.6	0
9	Nd-Nb co-dopant effect on suppression of phase transition, ionic conductivity and dielectrics relaxation phenomenon of La₂Mo₂O₉ system. Ferroelectrics, 2022, 589, 243-251.	0.6	1
10	Spectroscopic tools to probe multiple dopant induced elastic strain effect in doped ceria matrix: As electrolyte for ITSOFCs. Journal of Molecular Structure, 2021, 1235, 130258.	3.6	3
11	Dopant Induced-Modulation in Reducing Ability of Cerium in Doped Ceria System and Its Effect on Oxy-Ion Conductivity: Core Study by XPS and XANES Probes. ECS Journal of Solid State Science and Technology, 2021, 10, 101010.	1.8	1
12	Investigation of in-situ oxygen vacancies dissociation mechanism and associated atomic scale reshuffling during oxy-ion migration in nanostructured co-doped ceria. Solid State Ionics, 2020, 345, 115157.	2.7	15
13	Ce-doping effect on modulation of spin-exchange interaction and dielectric behaviour of nanostructured LaFeO3 orthoferrites. Materials Chemistry and Physics, 2020, 242, 122457.	4.0	12
14	Correlation of dynamical disorder and oxy-ion diffusion mechanism in a Dy, W co-doped La₂Mo₂O₉ system: an electrolyte for IT-SOFCs. Dalton Transactions, 2020, 49, 13406-13419.	3.3	10
15	Effect of sintering temperature on structural and electrical properties of co-doped ceria based electrolyte material for IT-SOFCs. AIP Conference Proceedings, 2020, , .	0.4	2
16	Complex Perovskite system Dy_{0.5â€‹}<scp>_xB</scp>a_xSr_{0.5}Co_{0.80}Fe_{0.20}O<sub>3â€ As cathode for <scp>IT</scp>â€SOFCs. International Journal of Applied Ceramic Technology, 2019, 16, 273-286.	2.1	3
17	Exploration of Atomic Scale Changes during Oxygen Vacancy Dissociation Mechanism in Nanostructure Co-Doped Ceria: As Electrolytes for IT-SOFC. Journal of the Electrochemical Society, 2019, 166, F544-F554.	2.9	24
18	Crystal engineering of ZnS by cationic and anionic surfactant-cum-solvent. Materials Research Express, 2019, 6, 1250i6.	1.6	0

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19	Exploration of magnetically stable BiFeO3CoFe2O4 composites with significant dielectric ordering at room temperature. Journal of Alloys and Compounds, 2018, 755, 168-176.	5.5	11
20	Processing and conductivity behavior of La, Sm, Fe singly and doubly doped ceria: As electrolytes for IT-SOFCs. Solid State Ionics, 2018, 320, 199-209.	2.7	45
21	Low temperature synthesis of complex solid solution (1-x)Bi_{0.5}Na_{0.5}TiO₃â€“xBaTiO₃ system: BT induced structural and dielectric anomalies in NBT. Ferroelectrics, 2018, 537, 112-132.	0.6	6
22	Preparation of ZnS/ZnO core - Shell nanocomposite and its photocatalytic behaviour for dye degradation. AIP Conference Proceedings, 2018, , .	0.4	0
23	Study on structural refinement and electrochemical behaviour of Ba0.5Sr0.5Co0.8Fe0.2O3â˜Î´ as cathode materials for intermediate temperature solid oxide fuel cells (IT-SOFC). , 2018, , .		2
24	Efficient acetone sensor based on Ni-doped ZnO nanostructures prepared by spray pyrolysis technique. AIP Conference Proceedings, 2018, , .	0.4	2
25	Study on Dy0.45Ba0.05Sr0.5Co0.8Fe0.2O3-Î´â€“Ce0.85Gd0.15O1.95 composite cathode material for intermediate temperature solid oxide fuel cell. AIP Conference Proceedings, 2018, , .	0.4	0
26	Efficient photocatalytic degradation of malachite green dye under visible irradiation by water soluble ZnS:Mn/ZnS core/shell nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	2
27	Review on local structural properties of ceria-based electrolytes for IT-SOFC. Ionics, 2017, 23, 1049-1057.	2.4	19
28	Perovskite-spinel composite approach to modify room temperature structural, magnetic and dielectric behavior of BiFeO3. Journal of Alloys and Compounds, 2017, 695, 3689-3703.	5.5	28
29	Influences of Liquidâ€Phase Sintering on Structure, Grain Growth, and Dielectric Behavior of PbZr_{0.52}Ti_{0.48}O₃ Ceramics. International Journal of Applied Ceramic Technology, 2016, 13, 753-762.	2.1	10
30	Novel ceramic-polyamide nanocomposites approach to make flexible film of PZT ceramics: Structural and dielectric study. Ferroelectrics, 2016, 502, 187-196.	0.6	2
31	Effect of isovalent dopants on photodegradation ability of ZnS nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 163, 49-57.	3.9	16
32	Structural and dielectric anomalies near the MPB region of Na_{0.5}Bi_{0.5}TiO₃â€“SrTiO₃ solid solution. RSC Advances, 2015, 5, 50644-50654.	3.6	48
33	Novel perovskiteâ€“spinel composite approach to enhance the magnetization of LaFeO₃. RSC Advances, 2015, 5, 14366-14373.	3.6	40
34	Role of mode of heating on the synthesis of nanocrystalline zinc ferrite. Applied Nanoscience (Switzerland), 2015, 5, 711-717.	3.1	11
35	Investigation of photocatalytic and dielectric behavior of LaFeO3 nanoparticles prepared by microwave-assisted solâ€“gel combustion route. Journal of Sol-Gel Science and Technology, 2015, 76, 27-35.	2.4	23
36	Percolation Effect of PZT-BNT Composite System on Sinterability and Dielectrics Behaviour in View of Development of LTCC. Ferroelectrics, 2015, 481, 155-165.	0.6	3

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37	Influence of liquid phase lead borate glass on dielectric response of lead iron niobate. Journal of Alloys and Compounds, 2014, 587, 26-31.	5.5	3
38	Influence of gadolinium doping on the structure and defects of ceria under fuel cell operating temperature. Applied Physics Letters, 2014, 104, .	3.3	76
39	Gd/Sm dopant-modified oxidation state and defect generation in nano-ceria. Solid State Ionics, 2014, 260, 21-29.	2.7	107
40	Investigation On Magnetic Behaviour Of BiFeO3: SPIN Glass View PointÂ. Advanced Materials Letters, 2014, 5, 157-160.	0.6	19
41	Investigation of spin phonon coupling in BiFeO3 based system by Fourier transform infrared spectroscopy. Journal of Applied Physics, 2013, 114, 193901.	2.5	27
42	Ethylenediamine-Mediated Wurtzite Phase Formation in ZnS. Crystal Growth and Design, 2013, 13, 1369-1376.	3.0	92
43	Synthesis and magnetic properties of TbMnO₃nanorods. Journal of Experimental Nanoscience, 2013, 8, 288-294.	2.4	14
44	The effect of processing route on sinterability and electrical properties of nano-sized dysprosium-doped ceria. Journal of Power Sources, 2012, 198, 105-111.	7.8	25
45	A multiferroic behavior of TbMnO3 nanorods prepared by microwave-assisted chemical route. Applied Nanoscience (Switzerland), 2012, 2, 31-34.	3.1	6
46	Microwave assisted hydrothermally synthesized nanostructure zinc oxide reinforced polyaniline nanocomposites. Advanced Materials Letters, 2011, 2, 362-367.	0.6	35
47	Microwave-Assisted Chemical Reduction Routes for Direct Synthesis of (fct) L1₀Phase of Fe-Pt. Journal of Microwave Power and Electromagnetic Energy, 2011, 45, 63-69.	0.8	6
48	Microwave-assisted chemical reduction routes for direct synthesis of Feâ€“Pt nanoparticles in ordered face centered tetragonal L10 phase. Applied Nanoscience (Switzerland), 2011, 1, 97-101.	3.1	12
49	Fabrication of 1D Microtubes of ZnS by Microwave Irradiation Method. Integrated Ferroelectrics, 2010, 116, 16-22.	0.7	5
50	Synthesis and Characterization of Nanosized Dy-Doped of Ceria Developed by Microwave Assisted Combustion Route. Integrated Ferroelectrics, 2010, 121, 13-23.	0.7	4
51	Template-free ZnS nanorod synthesis by microwave irradiation. Nanotechnology, 2008, 19, 415602.	2.6	78
52	Low temperature processing of dense samarium-doped CeO2 ceramics: sintering and intermediate temperature ionic conductivity. Ionics, 2007, 13, 429-434.	2.4	28
53	Nanosized ceria-based ceramics: a comparative study. Ionics, 2006, 12, 295-301.	2.4	27
54	Qualitative Analysis of Tolerance Factor, Electronegativity and Chemical Bonding of Some Ferroelectric Perovskites Through MOT. Ferroelectrics, 2005, 315, 91-110.	0.6	22