ArunÂ M Umarji

List of Publications by Year
in descending order

37 papers	995 citations	430874 18 h-index	434195 31 g-index
37 all docs	37 docs citations	37 times ranked	1275 citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel substitution induced effects on gas sensing properties of cobalt ferrite nanoparticles. Journal of Alloys and Compounds, 2016, 654, 460-466.	5.5	106
2	High contrast switchability of VO_2 based metamaterial absorbers with ITO ground plane. Optics Express, 2017, 25, 9116.	3.4	82
3	Optimization of rheological properties of photopolymerizable alumina suspensions for ceramic microstereolithography. Ceramics International, 2014, 40, 3655-3665.	4.8	67
4	Gas sensing response analysis of p-type porous chromium oxide thin films. Journal of Materials Chemistry C, 2013, 1, 8167.	5.5	59
5	Effect of Substitution of Ca on Thermal Expansion of Cordierite (Mg2Al4Si5O18). Journal of the American Ceramic Society, 1993, 76, 1873-1876.	3.8	49
6	Fully Inkjet-Printed Mesoporous SnO₂-Based Ultrasensitive Gas Sensors for Trace Amount NO₂ Detection. ACS Applied Materials & Interfaces, 2020, 12, 57207-57217.	8.0	49
7	Perovskite Phase Formation in the Relaxor System [Pb(Fe1/2Nb1/2)O3]1-x-[Pb(Zn1/3Nb2/3)O3]x. Journal of the American Ceramic Society, 1996, 79, 257-260.	3.8	46
8	Synthesis of New Amorphous Metallic Spin Glasses M2SnTe4(Mï£¾Cr, Mn, Fe, Co): Solvent Induced Metal-Insulator Transformations. Angewandte Chemie International Edition in English, 1984, 23, 169-170.	4.4	40
9	Achieving selectivity from the synergistic effect of Cr and Pt activated SnO2 thin film gas sensors. Sensors and Actuators B: Chemical, 2016, 236, 208-217.	7.8	40
10	Effect of W addition on the electrical switching of VO2 thin films. AIP Advances, 2016, 6, .	1.3	39
11	Correlating defect induced ferromagnetism and gas sensing properties of undoped tin oxide sensors. Applied Physics Letters, 2014, 104, .	3.3	34
12	Thermochromic VO2 thin films on ITO-coated glass substrates for broadband high absorption at infra-red frequencies. Journal of Applied Physics, 2017, 122, .	2.5	34
13	Binder removal studies in ceramic thick shapes made by laminated object manufacturing. Journal of the European Ceramic Society, 2003, 23, 1013-1017.	5.7	33
14	Effect of Pt doping on the gas sensing properties of porous chromium oxide films through a kinetic response analysis approach. RSC Advances, 2015, 5, 27509-27516.	3.6	26
15	Low-cost VO₂ (M1) thin films synthesized by ultrasonic nebulized spray pyrolysis of an aqueous combustion mixture for IR photodetection. RSC Advances, 2019, 9, 9983-9992.	3.6	24
16	Effect of Fe alloying on the thermoelectric performance of Cu2Te. Journal of Alloys and Compounds, 2020, 817, 152729.	5.5	24
17	Defect engineering of VO2 thin films synthesized by Chemical Vapor Deposition. Materials Chemistry and Physics, 2020, 245, 122230.	4.0	23
18	Effect of Al-doping on suppression of thermal conductivity in Si dispersed Î² -FeSi 2. Intermetallics, 2017, 89, 57-64.	3.9	22

#	Article	IF	Citations
19	Systematic Crystallographic Investigation of Hydrogen-Bonded Networks Involving Monohydrogen Tartrateâ"Amine Complexes:Â Potential Materials for Nonlinear Opticsâ€–. Chemistry of Materials, 1996, 8, 2313-2323.	6.7	18
20	Synthesis, structure and thermoelectric properties of $$mathrm{La}_{1-x}mathrm{Na}_{x}mathrm{CoO}_{3 }$$ La 1 - x Na x CoO 3 perovskite oxides. Bulletin of Materials Science, 2017, 40, 1291-1299.	1.7	17
21	IR photoresponsive VO₂thin films and electrically assisted transition prepared by single-step chemical vapor deposition. Journal of Materials Chemistry C, 2020, 8, 12543-12550.	5.5	17
22	Particle size effect on the thermal conductivity reduction of silicon based thermoelectric composites. Sustainable Energy and Fuels, 2018, 2, 1764-1771.	4.9	16
23	Highly photoresponsive VO2(M1) thin films synthesized by DC reactive sputtering. Journal of Materials Science: Materials in Electronics, 2020, 31, 4687-4695.	2.2	16
24	Graphitic carbon nitride-bismuth antimony telluride nanocomposites: A potential material for thermoelectric applications. Journal of Alloys and Compounds, 2021, 853, 156872.	5.5	16
25	Optimization of absorption/desorption parameters of Brownmillerite SrCoO2.5 for oxygen storage. Journal of Alloys and Compounds, 2019, 803, 102-110.	5.5	13
26	Enhanced humidity responsive ultrasonically nebulised V₂O₅ thin films. Nano Express, 2020, 1, 010005.	2.4	13
27	Influence of Ceâ€"W co-doping on phase transition temperature of VO₂ thin films deposited by ultrasonic nebulized spray pyrolysis of aqueous combustion mixture. Journal Physics D: Applied Physics, 2020, 53, 185104.	2.8	12
28	Highly sensitive and selective ultrasonically nebulized V2O5 thin films towards ethanol and NO2 gas detection. Sensors and Actuators B: Chemical, 2021, 337, 129811.	7.8	12
29	Stabilization of Brownmillerite-Type SrCoO_{2.5} by a Cost-Effective Quenching Method for Oxygen-Scavenging Applications. Industrial & Engineering Chemistry Research, 2018, 57, 14749-14757.	3.7	10
30	Room temperature synthesis of transition metal silicide-conducting polymer micro-composites for thermoelectric applications. Synthetic Metals, 2017, 225, 55-63.	3.9	9
31	One-step synthesis of diopside (CaMgSi2O6) ceramic powder by solution combustion method. Advanced Powder Technology, 2020, 31, 3492-3499.	4.1	9
32	Ultra-high response ethanol sensors from fully-printed co-continuous and mesoporous tin oxide thin films. Journal of Alloys and Compounds, 2021, 865, 158815.	5.5	9
33	Structure, energetics and diffusion properties of isomers of trimethyl benzene in Î² zeolite: Uptake and Monte Carlo simulation study. Microporous and Mesoporous Materials, 2009, 125, 135-142.	4.4	4
34	Enhanced phase transition and infrared photoresponse characteristics in VO₂(M1) thin films synthesized by DC reactive sputtering on different substrates. Materials Advances, 2021, 2, 3726-3735.	5.4	4
35	Rare earth barium cobaltites: potential candidates for low-temperature oxygen separation. SN Applied Sciences, 2020, 2, 1.	2.9	1
36	Effect of oxygen diffusion path radii on the oxygen intake/release properties of Brownmillerite SrCoO$$ _{2.5} $$. Chemical Papers, 2021, 75, 3241-3251.	2.2	1

#	Article	IF	Citations
37	Dependence of oxygen desorption kinetics on processing methods of SrCoO2.5. Bulletin of Materials Science, 2021, 44, 1.	1.7	1