

Arun M Umarji

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3912430/publications.pdf>

Version: 2024-02-01

37
papers

995
citations

430754

18
h-index

434063

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.	2.8	106
2	High contrast switchability of VO ₂ based metamaterial absorbers with ITO ground plane. Optics Express, 2017, 25, 9116.	1.7	82
3	Optimization of rheological properties of photopolymerizable alumina suspensions for ceramic microstereolithography. Ceramics International, 2014, 40, 3655-3665.	2.3	67
4	Gas sensing response analysis of p-type porous chromium oxide thin films. Journal of Materials Chemistry C, 2013, 1, 8167.	2.7	59
5	Effect of Substitution of Ca on Thermal Expansion of Cordierite (Mg ₂ Al ₄ Si ₅ O ₁₈). Journal of the American Ceramic Society, 1993, 76, 1873-1876.	1.9	49
6	Fully Inkjet-Printed Mesoporous SnO ₂ -Based Ultrasensitive Gas Sensors for Trace Amount NO ₂ Detection. ACS Applied Materials & Interfaces, 2020, 12, 57207-57217.	4.0	49
7	Perovskite Phase Formation in the Relaxor System [Pb(Fe _{1/2} Nb _{1/2})O ₃] _{1-x} [Pb(Zn _{1/3} Nb _{2/3})O ₃] _x . Journal of the American Ceramic Society, 1996, 79, 257-260.	1.9	46
8	Synthesis of New Amorphous Metallic Spin Glasses M ₂ SnTe ₄ (M = ¼Cr, 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 SnO ₂ thin film gas sensors. Sensors and Actuators B: Chemical, 2016, 236, 208-217.	4.0	40
10	Effect of W addition on the electrical switching of VO ₂ thin films. AIP Advances, 2016, 6, .	0.6	39
11	Correlating defect induced ferromagnetism and gas sensing properties of undoped tin oxide sensors. Applied Physics Letters, 2014, 104, .	1.5	34
12	Thermochromic VO ₂ thin films on ITO-coated glass substrates for broadband high absorption at infra-red frequencies. Journal of Applied Physics, 2017, 122, .	1.1	34
13	Binder removal studies in ceramic thick shapes made by laminated object manufacturing. Journal of the European Ceramic Society, 2003, 23, 1013-1017.	2.8	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.	1.7	26
15	Low-cost VO ₂ (M1) thin films synthesized by ultrasonic nebulized spray pyrolysis of an aqueous combustion mixture for IR photodetection. RSC Advances, 2019, 9, 9983-9992.	1.7	24
16	Effect of Fe alloying on the thermoelectric performance of Cu ₂ Te. Journal of Alloys and Compounds, 2020, 817, 152729.	2.8	24
17	Defect engineering of VO ₂ thin films synthesized by Chemical Vapor Deposition. Materials Chemistry and Physics, 2020, 245, 122230.	2.0	23
18	Effect of Al-doping on suppression of thermal conductivity in Si dispersed $\hat{1}^2$ -FeSi ₂ . Intermetallics, 2017, 89, 57-64.	1.8	22

#	ARTICLE	IF	CITATIONS
19	Systematic Crystallographic Investigation of Hydrogen-Bonded Networks Involving Monohydrogen Tartrate ²⁻ Amine Complexes: A Potential Materials for Nonlinear Optics. Chemistry of Materials, 1996, 8, 2313-2323.	3.2	18
20	Synthesis, structure and thermoelectric properties of $\text{La}_{1-x}\text{Na}_x\text{CoO}_3$ perovskite oxides. Bulletin of Materials Science, 2017, 40, 1291-1299.	0.8	17
21	IR photoresponsive VO_2 thin films and electrically assisted transition prepared by single-step chemical vapor deposition. Journal of Materials Chemistry C, 2020, 8, 12543-12550.	2.7	17
22	Particle size effect on the thermal conductivity reduction of silicon based thermoelectric composites. Sustainable Energy and Fuels, 2018, 2, 1764-1771.	2.5	16
23	Highly photoresponsive $\text{VO}_2(\text{M1})$ thin films synthesized by DC reactive sputtering. Journal of Materials Science: Materials in Electronics, 2020, 31, 4687-4695.	1.1	16
24	Graphitic carbon nitride-bismuth antimony telluride nanocomposites: A potential material for thermoelectric applications. Journal of Alloys and Compounds, 2021, 853, 156872.	2.8	16
25	Optimization of absorption/desorption parameters of Brownmillerite $\text{SrCoO}_{2.5}$ for oxygen storage. Journal of Alloys and Compounds, 2019, 803, 102-110.	2.8	13
26	Enhanced humidity responsive ultrasonically nebulised VO_2/VO_5 thin films. Nano Express, 2020, 1, 010005.	1.2	13
27	Influence of Ce/W co-doping on phase transition temperature of VO_2 thin films deposited by ultrasonic nebulized spray pyrolysis of aqueous combustion mixture. Journal Physics D: Applied Physics, 2020, 53, 185104.	1.3	12
28	Highly sensitive and selective ultrasonically nebulized VO_5 thin films towards ethanol and NO_2 gas detection. Sensors and Actuators B: Chemical, 2021, 337, 129811.	4.0	12
29	Stabilization of Brownmillerite-Type $\text{SrCoO}_{2.5}$ by a Cost-Effective Quenching Method for Oxygen-Scavenging Applications. Industrial & Engineering Chemistry Research, 2018, 57, 14749-14757.	1.8	10
30	Room temperature synthesis of transition metal silicide-conducting polymer micro-composites for thermoelectric applications. Synthetic Metals, 2017, 225, 55-63.	2.1	9
31	One-step synthesis of diopside ($\text{CaMgSi}_2\text{O}_6$) ceramic powder by solution combustion method. Advanced Powder Technology, 2020, 31, 3492-3499.	2.0	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.	2.8	9
33	Structure, energetics and diffusion properties of isomers of trimethyl benzene in H^2 zeolite: Uptake and Monte Carlo simulation study. Microporous and Mesoporous Materials, 2009, 125, 135-142.	2.2	4
34	Enhanced phase transition and infrared photoresponse characteristics in $\text{VO}_2(\text{M1})$ thin films synthesized by DC reactive sputtering on different substrates. Materials Advances, 2021, 2, 3726-3735.	2.6	4
35	Rare earth barium cobaltites: potential candidates for low-temperature oxygen separation. SN Applied Sciences, 2020, 2, 1.	1.5	1
36	Effect of oxygen diffusion path radii on the oxygen intake/release properties of Brownmillerite $\text{SrCoO}_{2.5}$. Chemical Papers, 2021, 75, 3241-3251.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Dependence of oxygen desorption kinetics on processing methods of SrCoO _{2.5} . Bulletin of Materials Science, 2021, 44, 1.	0.8	1