Otto J Gregory

List of Publications by Year
in descending order

35 papers	895 citations	623734 14 h-index	526287 27 g-index
36 all docs	36 docs citations	36 times ranked	948 citing authors

#	Article	IF	Citations
1	The Role of Solution Phase Water on the Deposition of Thin Films of Poly(vinylidene fluoride). Macromolecules, 2002, 35, 2682-2688.	4.8	249
2	Metallic and Ceramic Thin Film Thermocouples for Gas Turbine Engines. Sensors, 2013, 13, 15324-15347.	3.8	89
3	Thinâ€Film Thermocouples Based on the System In₂O₃â€“SnO₂. Journal of the American Ceramic Society, 2011, 94, 854-860.	3.8	69
4	Stability and Microstructure of Indium Tin Oxynitride Thin Films. Journal of the American Ceramic Society, 2012, 95, 705-710.	3.8	67
5	Sensors for the detection of ammonia as a potential biomarker for health screening. Scientific Reports, 2021, 11, 7185.	3.3	54
6	Thin film platinumâ€“palladium thermocouples for gas turbine engine applications. Thin Solid Films, 2013, 539, 345-349.	1.8	47
7	Experimental investigations of liquid flow in rib-patterned microchannels with different surface wettability. Microfluidics and Nanofluidics, 2011, 11, 45-55.	2.2	30
8	Forced Convection Heat Transfer Simulation Using Dissipative Particle Dynamics. Numerical Heat Transfer; Part A: Applications, 2011, 60, 651-665.	2.1	29
9	Strain-induced modulation of near-field radiative transfer. Applied Physics Letters, 2018, 112, 241104.	3.3	28
10	An apparent n to p transition in reactively sputtered indiumâ€“tinâ€“oxide high temperature strain gages. Thin Solid Films, 2002, 405, 263-269.	1.8	26
11	A Review of Tunable Wavelength Selectivity of Metamaterials in Near-Field and Far-Field Radiative Thermal Transport. Materials, 2018, 11, 862.	2.9	26
12	Reaction Sintering of Submicrometer Silicon Powder. Journal of the American Ceramic Society, 1987, 70, C-52-C-55.	3.8	21
13	Simulation of Thermal Conductivity of Nanofluids Using Dissipative Particle Dynamics. Numerical Heat Transfer; Part A: Applications, 2012, 61, 323-337.	2.1	20
14	Submicron silicon powder production in an aerosol reactor. Applied Physics Letters, 1986, 49, 82-84.	3.3	19
15	Computer Simulation of the Microstructure Developed in Reaction-Sintered Silicon Nitride Ceramics. Journal of the American Ceramic Society, 1990, 73, 286-296.	3.8	14
16	Thermoelectric Properties of Zn[sub x]In[sub y]O[sub x+1.5y] Films. Journal of the Electrochemical Society, 2011, 158, J15.	2.9	13
17	Thermoelectric power factor of In2O3:Pd nanocomposite films. Applied Physics Letters, 2011, 99, 013107.	3.3	12
18	Trace Detection of Explosives Using Metal Oxide Catalysts. IEEE Sensors Journal, 2019, 19, 4773-4780.	4.7	11

#	Article	IF	Citations
19	Free-standing, thin-film sensors for the trace detection of explosives. Scientific Reports, 2021, 11, 6623.	3.3	10
20	Novel temperature sensors for SiCâ€“SiC CMC engine components. Journal of Materials Research, 2017, 32, 3319-3325.	2.6	9
21	High-Temperature Thermoelectric Properties of Compounds in the System Zn x In y O x+1.5y. Journal of Electronic Materials, 2013, 42, 114-120.	2.2	8
22	Dynamic optical response of SU-8 upon UV treatment. Optical Materials Express, 2018, 8, 2017.	3.0	8
23	Thermoelectric Properties and Microstructure of Cuâ€“Inâ€“O Thin Films. ACS Combinatorial Science, 2013, 15, 580-584.	3.8	7
24	A Low TCR Nanocomposite Strain Gage for High Temperature Aerospace Applications. , 2007, , .		6
25	Orthogonal Sensors for the Trace Detection of Explosives. , 2019, 3, 1-4.		4
26	Continuous Monitoring of TATP Using Ultrasensitive, Low-Power Sensors. IEEE Sensors Journal, 2020, 20, 14058-14064.	4.7	4
27	ITO:SiC Ceramic Matrix Composite Thermocouples for Engine Components. , 2020, 4, 1-4.		3
28	Piezoresistive Properties of Ceramic Strain Sensors with Controlled Nanoporosity. Materials Research Society Symposia Proceedings, 2003, 785, 1411.	0.1	2
29	Detection of explosives using orthogonal gas sensors. , 2013, , .		2
30	Metallic and ceramic thin film thermocouples for gas turbine engine applications. , 2013, , .		2
31	Embedded thermocouples for CMC engine components. , 2017, , .		2
32	Strain Gages for SiCâ€“SiC Ceramic Matrix Composite Engine Components. , 2018, 2, 1-4.		2
33	Stabilization of Indium Tin Oxide Films to Very High Temperatures. Materials Research Society Symposia Proceedings, 2002, 751, 1.	0.1	1
34	An Intermediate TCE Nanocomposite Coating for Thermal Barrier Coatings. Materials Research Society Symposia Proceedings, 2003, 791, 1.	0.1	1
35	Oxide Nanowires for Chemical Sensing. MRS Advances, 2016, 1, 1531-1537.	0.9	0