Kp Muthe

List of Publications by Year
in descending order

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55 papers	2,110 citations	279798 23 h-index	233421 45 g-index
55 all docs	55 docs citations	55 times ranked	2735 citing authors

#	Article	IF	Citations
1	Growth and branching of CuO nanowires by thermal oxidation of copper. Journal of Crystal Growth, 2006, 289, 670-675.	1.5	242
2	Sub-ppm H2S sensing at room temperature using CuO thin films. Sensors and Actuators B: Chemical, 2010, 151, 90-96.	7.8	196
3	Mechanism of drifts in H2S sensing properties of SnO2:CuO composite thin film sensors prepared by thermal evaporation. Sensors and Actuators B: Chemical, 2003, 96, 245-252.	7.8	155
4	Copper doped SnO2 nanowires as highly sensitive H2S gas sensor. Sensors and Actuators B: Chemical, 2009, 138, 587-590.	7.8	155
5	XPS and AFM investigations of annealing induced surface modifications of MgO single crystals. Journal of Crystal Growth, 2002, 236, 661-666.	1.5	120
6	Room temperature operating ammonia sensor based on tellurium thin films. Sensors and Actuators B: Chemical, 2004, 98, 154-159.	7.8	81
7	A study of the CuO phase formation during thin film deposition by molecular beam epitaxy. Thin Solid Films, 1998, 324, 37-43.	1.8	80
8	XPS and Kelvin probe studies of SnO2/RGO nanohybrids based NO2 sensors. Applied Surface Science, 2019, 487, 918-929.	6.1	80
9	RF sputtered SnO2: NiO thin films as sub-ppm H2S sensor operable at room temperature. Sensors and Actuators B: Chemical, 2017, 242, 389-403.	7.8	78
10	An alternative method of preparation of dosimetric grade Î±-Al2O3:C by vacuum-assisted post-growth thermal impurification technique. Radiation Measurements, 2005, 39, 277-282.	1.4	63
11	Highly sensitive hydrogen sulphide sensors operable at room temperature. Sensors and Actuators B: Chemical, 2006, 115, 270-275.	7.8	63
12	TiO2/ZnO heterostructure nanowire based NO2 sensor. Materials Science in Semiconductor Processing, 2020, 106, 104770.	4.0	59
13	Degradation behavior of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2001, 363, 208-214.	1.2	53
14	Flexo-green Polypyrrole â€“ Silver nanocomposite films for thermoelectric power generation. Energy Conversion and Management, 2017, 144, 143-152.	9.2	41
15	Transition from n- to p-type conduction concomitant with enhancement of figure-of-merit in Pb doped bismuth telluride: Material to device development. Materials and Design, 2018, 159, 127-137.	7.0	39
16	Tellurium-free thermoelectrics: Improved thermoelectric performance of n-type Bi 2 Se 3 having multiscale hierarchical architecture. Energy Conversion and Management, 2017, 145, 415-424.	9.2	37
17	Improved performance of dye sensitized solar cell via fine tuning of ultra-thin compact TiO 2 layer. Solar Energy Materials and Solar Cells, 2017, 170, 127-136.	6.2	36
18	Optimization of CW-OSL parameters for improved dose detection threshold in Al2O3:C. Radiation Measurements, 2014, 71, 212-216.	1.4	35

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19	Carbon doped yttrium aluminum garnet (YAG:C)â€"A new phosphor for radiation dosimetry. Radiation Measurements, 2008, 43, 492-496.	1.4	33
20	Rapid microwave assisted hydrothermal synthesis cerium vanadate nanoparticle and its photocatalytic and antibacterial studies. Journal of Physics and Chemistry of Solids, 2020, 137, 109211.	4.0	29
21	Luminescence properties of :C crystal with intense low temperature TL peak. Radiation Measurements, 2007, 42, 170-176.	1.4	28
22	Scalable free-standing polypyrrole films for wrist-band type flexible thermoelectric power generator. Energy, 2019, 176, 853-860.	8.8	27
23	Morphology and resistivity of Al thin films grown on Si (111) by molecular beam epitaxy. Vacuum, 2005, 79, 178-185.	3.5	26
24	Electron beam induced modifications of polyaniline silver nano-composite films: Electrical conductivity and H2S gas sensing studies. Radiation Physics and Chemistry, 2018, 153, 131-139.	2.8	23
25	Boosting thermoelectric power factor of free-standing Poly(3,4ethylenedioxythiophene):polystyrenesulphonate films by incorporation of bismuth antimony telluride nanostructures. Journal of Power Sources, 2019, 435, 226758.	7.8	21
26	Detection of sub micro Gray dose levels using OSL phosphor LiMgPO 4 :Tb,B. Nuclear Instruments & Methods in Physics Research B, 2017, 397, 27-32.	1.4	19
27	Low temperature processable ultra-thin WO3 Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell. Electrochimica Acta, 2019, 318, 405-412.	5.2	19
28	Effect of deposition conditions on the microstructure and gas-sensing characteristics of Te thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 131, 156-161.	3.5	18
29	Enhanced thermoelectric figure-of-merit of p-type SiGe through TiO2 nanoinclusions and modulation doping of boron. Materialia, 2018, 4, 147-156.	2.7	17
30	Rapid synthesis of tetragonal zirconia nanoparticles by microwave-solvothermal route and its photocatalytic activity towards organic dyes and hexavalent chromium in single and binary component systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 608, 125551.	4.7	16
31	Growth of yttria and dysprosium thin films by molecular beam epitaxy and their characterization. Journal of Crystal Growth, 1993, 130, 59-66.	1.5	15
32	In situ X-ray photoelectron spectroscopy of Ag/Al bilayers grown by molecular beam epitaxy. Journal of Crystal Growth, 2003, 256, 201-205.	1.5	15
33	Non-linear light modulation OSL phenomenon. Radiation Measurements, 2008, 43, 1177-1186.	1.4	15
34	Melt processing of alumina in graphite ambient for dosimetric applications. Journal of Luminescence, 2008, 128, 445-450.	3.1	14
35	TL and OSL studies of carbon doped magnesium aluminate (MgAl2O4:C). Radiation Physics and Chemistry, 2016, 127, 78-84.	2.8	14
36	Elucidating the mechanisms behind thermoelectric power factor enhancement of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) flexible films. Vacuum, 2018, 153, 238-247.	3.5	14

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37	NO2 sensor based on Al modified ZnO nanowires. Materials Science in Semiconductor Processing, 2021, 134, 106027.	4.0	14
38	Modeling of gate bias controlled NO2 response of the PCDTBT based organic field effect transistor. Chemical Physics Letters, 2018, 698, 7-10.	2.6	13
39	Thin film deposition of BaO by molecular beam epitaxy. Journal of Crystal Growth, 1992, 118, 213-217.	1.5	12
40	TL and OSL studies on neutron irradiated pure Î±-Al2O3 single crystals. Radiation Measurements, 2011, 46, 1704-1707.	1.4	12
41	Electron beam modified zinc phthalocyanine thin films for radiation dosimeter application. Synthetic Metals, 2017, 231, 143-152.	3.9	12
42	Anionic conduction mediated giant n-type Seebeck coefficient in doped Poly(3-hexylthiophene) free-standing films. Materials Today Physics, 2021, 16, 100307.	6.0	11
43	Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy. Applied Surface Science, 2005, 243, 220-227.	6.1	10
44	In-Vacuo thermal processing of Î±-Al2O3 single crystals in boron ambience and its implication on TL & OSL response. Journal of Luminescence, 2010, 130, 1308-1312.	3.1	7
45	Growth of aligned polypyrrole acicular nanorods and their application as Ptâ€free semitransparent counter electrode in dyeâ€sensitized solar cell. Polymers for Advanced Technologies, 2018, 29, 401-406.	3.2	7
46	Electron spectroscopy for chemical analysis studies on electron beam evaporated CuOx thin films. Thin Solid Films, 1994, 249, 140-143.	1.8	6
47	Unusual magnetic properties of Mn-doped ThO₂ nanoparticles. Journal of Materials Research, 2008, 23, 463-472.	2.6	6
48	Studies on new neutron-sensitive dosimeters using an optically stimulated luminescence technique. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1465-1470.	1.4	6
49	The effect of growth temperature on thin film deposition of yttrium under molecular beam epitaxial conditions. Journal of Crystal Growth, 1994, 139, 323-326.	1.5	5
50	Thin film deposition of yttrium and dysprosium on yttria-stabilized zirconia and strontium titanate substrates with buffer layers. Journal of Crystal Growth, 1995, 156, 74-78.	1.5	4
51	Development of a Spherical ¹²⁵I-Brachytherapy Seed for Its Application in the Treatment of Eye and Prostate Cancer. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 807-818.	1.0	4
52	New OSL detector combination for albedo neutron dosimetry. Radiation Measurements, 2014, 71, 505-508.	1.4	2
53	On the feasibility of multiple assessment of dose using CW-OSL technique in Al2O3:C. Radiation Measurements, 2015, 82, 74-82.	1.4	2
54	Preparation and characterization of MgB2 superconductor. Pramana - Journal of Physics, 2002, 58, 867-870.	1.8	1

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55	Study of SnO/sub 2/ and SnO/sub 2/:CuO thin films for H/sub 2/S gas sensing applications. , 0, , .		0