

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
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all docs

55
docs citations

55
times ranked

2735
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 608, 125551.	4.7	16
2	Anionic conduction mediated giant n-type Seebeck coefficient in doped Poly(3-hexylthiophene) free-standing films. <i>Materials Today Physics</i> , 2021, 16, 100307.	6.0	11
3	NO ₂ sensor based on Al modified ZnO nanowires. <i>Materials Science in Semiconductor Processing</i> , 2021, 134, 106027.	4.0	14
4	TiO ₂ /ZnO heterostructure nanowire based NO ₂ sensor. <i>Materials Science in Semiconductor Processing</i> , 2020, 106, 104770.	4.0	59
5	Rapid microwave assisted hydrothermal synthesis cerium vanadate nanoparticle and its photocatalytic and antibacterial studies. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 137, 109211.	4.0	29
6	Boosting thermoelectric power factor of free-standing Poly(3,4-ethylenedioxythiophene):polystyrenesulphonate films by incorporation of bismuth antimony telluride nanostructures. <i>Journal of Power Sources</i> , 2019, 435, 226758.	7.8	21
7	Low temperature processable ultra-thin WO ₃ Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell. <i>Electrochimica Acta</i> , 2019, 318, 405-412.	5.2	19
8	XPS and Kelvin probe studies of SnO ₂ /RGO nanohybrids based NO ₂ sensors. <i>Applied Surface Science</i> , 2019, 487, 918-929.	6.1	80
9	Scalable free-standing polypyrrole films for wrist-band type flexible thermoelectric power generator. <i>Energy</i> , 2019, 176, 853-860.	8.8	27
10	Elucidating the mechanisms behind thermoelectric power factor enhancement of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) flexible films. <i>Vacuum</i> , 2018, 153, 238-247.	3.5	14
11	Modeling of gate bias controlled NO ₂ response of the PCDTBT based organic field effect transistor. <i>Chemical Physics Letters</i> , 2018, 698, 7-10.	2.6	13
12	Growth of aligned polypyrrole acicular nanorods and their application as Pt-free semitransparent counter electrode in dye-sensitized solar cell. <i>Polymers for Advanced Technologies</i> , 2018, 29, 401-406.	3.2	7
13	Enhanced thermoelectric figure-of-merit of p-type SiGe through TiO ₂ nano-inclusions and modulation doping of boron. <i>Materialia</i> , 2018, 4, 147-156.	2.7	17
14	Electron beam induced modifications of polyaniline silver nano-composite films: Electrical conductivity and H ₂ S gas sensing studies. <i>Radiation Physics and Chemistry</i> , 2018, 153, 131-139.	2.8	23
15	Transition from n- to p-type conduction concomitant with enhancement of figure-of-merit in Pb doped bismuth telluride: Material to device development. <i>Materials and Design</i> , 2018, 159, 127-137.	7.0	39
16	Detection of sub micro Gray dose levels using OSL phosphor LiMgPO ₄ :Tb,B. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 397, 27-32.	1.4	19
17	Flexo-green Polypyrrole "Silver nanocomposite films for thermoelectric power generation. <i>Energy Conversion and Management</i> , 2017, 144, 143-152.	9.2	41
18	Tellurium-free thermoelectrics: Improved thermoelectric performance of n-type Bi ₂ Se ₃ having multiscale hierarchical architecture. <i>Energy Conversion and Management</i> , 2017, 145, 415-424.	9.2	37

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19	Electron beam modified zinc phthalocyanine thin films for radiation dosimeter application. Synthetic Metals, 2017, 231, 143-152.	3.9	12
20	RF sputtered SnO ₂ : NiO thin films as sub-ppm H ₂ S sensor operable at room temperature. Sensors and Actuators B: Chemical, 2017, 242, 389-403.	7.8	78
21	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
22	TL and OSL studies of carbon doped magnesium aluminate (MgAl ₂ O ₄ :C). Radiation Physics and Chemistry, 2016, 127, 78-84.	2.8	14
23	On the feasibility of multiple assessment of dose using CW-OSL technique in Al ₂ O ₃ :C. Radiation Measurements, 2015, 82, 74-82.	1.4	2
24	Optimization of CW-OSL parameters for improved dose detection threshold in Al ₂ O ₃ :C. Radiation Measurements, 2014, 71, 212-216.	1.4	35
25	New OSL detector combination for albedo neutron dosimetry. Radiation Measurements, 2014, 71, 505-508.	1.4	2
26	TL and OSL studies on neutron irradiated pure $\hat{\Gamma}$ -Al ₂ O ₃ single crystals. Radiation Measurements, 2011, 46, 1704-1707.	1.4	12
27	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
28	In-Vacuo thermal processing of $\hat{\Gamma}$ -Al ₂ O ₃ single crystals in boron ambience and its implication on TL & OSL response. Journal of Luminescence, 2010, 130, 1308-1312.	3.1	7
29	Sub-ppm H ₂ S sensing at room temperature using CuO thin films. Sensors and Actuators B: Chemical, 2010, 151, 90-96.	7.8	196
30	Copper doped SnO ₂ nanowires as highly sensitive H ₂ S gas sensor. Sensors and Actuators B: Chemical, 2009, 138, 587-590.	7.8	155
31	Non-linear light modulation OSL phenomenon. Radiation Measurements, 2008, 43, 1177-1186.	1.4	15
32	Carbon doped yttrium aluminum garnet (YAG:C)â€™A new phosphor for radiation dosimetry. Radiation Measurements, 2008, 43, 492-496.	1.4	33
33	Melt processing of alumina in graphite ambient for dosimetric applications. Journal of Luminescence, 2008, 128, 445-450.	3.1	14
34	Development of a Spherical ¹²⁵ I-Brachytherapy Seed for Its Application in the Treatment of Eye and Prostate Cancer. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 807-818.	1.0	4
35	Unusual magnetic properties of Mn-doped ThO ₂ nanoparticles. Journal of Materials Research, 2008, 23, 463-472.	2.6	6
36	Luminescence properties of :C crystal with intense low temperature TL peak. Radiation Measurements, 2007, 42, 170-176.	1.4	28

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37	Effect of deposition conditions on the microstructure and gas-sensing characteristics of Te thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 131, 156-161.	3.5	18
38	Highly sensitive hydrogen sulphide sensors operable at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 270-275.	7.8	63
39	Growth and branching of CuO nanowires by thermal oxidation of copper. <i>Journal of Crystal Growth</i> , 2006, 289, 670-675.	1.5	242
40	An alternative method of preparation of dosimetric grade $\hat{\pm}$ -Al ₂ O ₃ :C by vacuum-assisted post-growth thermal impurification technique. <i>Radiation Measurements</i> , 2005, 39, 277-282.	1.4	63
41	Morphology and resistivity of Al thin films grown on Si (111) by molecular beam epitaxy. <i>Vacuum</i> , 2005, 79, 178-185.	3.5	26
42	Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy. <i>Applied Surface Science</i> , 2005, 243, 220-227.	6.1	10
43	Room temperature operating ammonia sensor based on tellurium thin films. <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 154-159.	7.8	81
44	In situ X-ray photoelectron spectroscopy of Ag/Al bilayers grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2003, 256, 201-205.	1.5	15
45	Mechanism of drifts in H ₂ S sensing properties of SnO ₂ :CuO composite thin film sensors prepared by thermal evaporation. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 245-252.	7.8	155
46	Preparation and characterization of MgB ₂ superconductor. <i>Pramana - Journal of Physics</i> , 2002, 58, 867-870.	1.8	1
47	XPS and AFM investigations of annealing induced surface modifications of MgO single crystals. <i>Journal of Crystal Growth</i> , 2002, 236, 661-666.	1.5	120
48	Degradation behavior of MgB ₂ superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 363, 208-214.	1.2	53
49	A study of the CuO phase formation during thin film deposition by molecular beam epitaxy. <i>Thin Solid Films</i> , 1998, 324, 37-43.	1.8	80
50	Thin film deposition of yttrium and dysprosium on yttria-stabilized zirconia and strontium titanate substrates with buffer layers. <i>Journal of Crystal Growth</i> , 1995, 156, 74-78.	1.5	4
51	Electron spectroscopy for chemical analysis studies on electron beam evaporated CuO _x thin films. <i>Thin Solid Films</i> , 1994, 249, 140-143.	1.8	6
52	The effect of growth temperature on thin film deposition of yttrium under molecular beam epitaxial conditions. <i>Journal of Crystal Growth</i> , 1994, 139, 323-326.	1.5	5
53	Growth of yttria and dysprosium thin films by molecular beam epitaxy and their characterization. <i>Journal of Crystal Growth</i> , 1993, 130, 59-66.	1.5	15
54	Thin film deposition of BaO by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1992, 118, 213-217.	1.5	12

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