## Nuggehalli M Ravindra

List of Publications by Year in descending order

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78 papers

1,727 citations

394421 19 h-index 289244 40 g-index

97 all docs 97
docs citations

97 times ranked 1613 citing authors

#	Article	IF	CITATIONS
1	On the Penn Gap in Semiconductors. Physica Status Solidi (B): Basic Research, 1979, 93, K155.	1.5	398
2	Comments on the Moss Formula. Physica Status Solidi (B): Basic Research, 1980, 100, 715-719.	1.5	272
3	Emissivity Measurements and Modeling of Silicon-Related Materials: An Overview. International Journal of Thermophysics, 2001, 22, 1593-1611.	2.1	91
4	Optical properties of vanadium oxides-an analysis. Journal of Materials Science, 2013, 48, 6341-6351.	3.7	88
5	Light emission from silicon: Some perspectives and applications. Journal of Electronic Materials, 2003, 32, 1043-1051.	2.2	76
6	Metallurgical and Mechanical Evaluation of 4340 Steel Produced by Direct Metal Laser Sintering. Jom, 2015, 67, 582-589.	1.9	53
7	Silicon device processing in H-ambients: H-diffusion mechanisms and influence on electronic properties. Journal of Electronic Materials, 2001, 30, 1616-1627.	2.2	52
8	Transdermal drug delivery and patches—An overview. Medical Devices & Sensors, 2020, 3, e10069.	2.7	43
9	The magnetic field-assisted assembly of nanoscale semiconductor devices: A new technique. Jom, 2004, 56, 32-34.	1.9	40
10	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.	1.7	38
10		2.9	38
	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.		
11	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.  Energy Gap-Refractive Index Relations in Perovskites. Materials, 2020, 13, 1917.  Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52,	2.9	36
11 12	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.  Energy Gap-Refractive Index Relations in Perovskites. Materials, 2020, 13, 1917.  Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52, K151-K155.	2.9	36
11 12 13	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.  Energy Gap-Refractive Index Relations in Perovskites. Materials, 2020, 13, 1917.  Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52, K151-K155.  Advances in the manufacturing, types, and applications of biosensors. Jom, 2007, 59, 37-43.  Modeling and simulation of emissivity of silicon-related materials and structures. Journal of	2.9 1.7 1.9	36 34 29
11 12 13	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.  Energy Gap-Refractive Index Relations in Perovskites. Materials, 2020, 13, 1917.  Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52, K151-K155.  Advances in the manufacturing, types, and applications of biosensors. Jom, 2007, 59, 37-43.  Modeling and simulation of emissivity of silicon-related materials and structures. Journal of Electronic Materials, 2003, 32, 1052-1058.  Temperature dependence of CIGS and perovskite solar cell performance: an overview. SN Applied	2.9 1.7 1.9	36 34 29 28
11 12 13 14	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.  Energy Gap-Refractive Index Relations in Perovskites. Materials, 2020, 13, 1917.  Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52, K151-K155.  Advances in the manufacturing, types, and applications of biosensors. Jom, 2007, 59, 37-43.  Modeling and simulation of emissivity of silicon-related materials and structures. Journal of Electronic Materials, 2003, 32, 1052-1058.  Temperature dependence of CIGS and perovskite solar cell performance: an overview. SN Applied Sciences, 2020, 2, 1.	2.9 1.7 1.9 2.2	36 34 29 28 26

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19	Process Evaluation of AISI 4340 Steel Manufactured by Laser Powder Bed Fusion. Journal of Materials Engineering and Performance, 2018, 27, 63-71.	2.5	20
20	Optical Properties of Black Silicon: An Analysis. Jom, 2015, 67, 2154-2159.	1.9	18
21	Additive Manufacturing of Sensors for Military Monitoring Applications. Polymers, 2021, 13, 1455.	4.5	18
22	Optical properties of metal phthalocyanines. Journal of Materials Science, 2010, 45, 4013-4020.	3.7	17
23	Silicon-integrated uncooled infrared detectors: Perspectives on thin films and microstructures. Journal of Electronic Materials, 2005, 34, 484-490.	2.2	16
24	lon beam mixing for processing of nanostructure materials. Journal of Electronic Materials, 2006, 35, 834-839.	2.2	15
25	Rapid thermal processing of silicon wafers with emissivity patterns. Journal of Electronic Materials, 2006, 35, 877-891.	2.2	15
26	Emissivity of Electronic Materials, Coatings, and Structures. Jom, 2014, 66, 616-636.	1.9	14
27	Modeling of Magnetic-Field-Assisted Assembly of Semiconductor Devices. Journal of Electronic Materials, 2008, 37, 374-378.	2.2	13
28	A Review: Advances and Modernization in U.S Army Gun Propellants. Jom, 2021, 73, 1144-1164.	1.9	13
29	Structural, thermodynamic and electronic properties of GaPxSb1–xand InPxSb1–xalloys. Emerging Materials Research, 2013, 2, 109-113.	0.7	12
30	Isosymmetric compression of cubic halide perovskites \$\$mathrm{ABX}_{3}\$\$ (\$\$A=K, Rb, Cs\$\$;) Tj ETQq0 0 0 r Applied Sciences, 2021, 3, 1.	rgBT /Over 2.9	rlock 10 Tf 50 11
31	Simulation of spectral emissivity of vanadium oxides (VOx)-based microbolometer structures. Emerging Materials Research, 2014, 3, 194-202.	0.7	9
32	CIGS and perovskite solar cells – an overview. Emerging Materials Research, 2020, 9, 812-824.	0.7	9
33	First-principles study of cubic alkaline-earth metal zirconate perovskites. Journal of Physics Communications, 2021, 5, 035006.	1.2	9
34	Thermochromic Polymeric Films for Applications in Active Intelligent Packagingâ€"An Overview. Micromachines, 2021, 12, 1193.	2.9	9
35	Thermoelectric Properties of Pristine and Doped Graphene Nanosheets and Graphene Nanoribbons: Part I. Jom, 2016, 68, 1653-1659.	1.9	8
36	Temperature dependence of the energy gap in pyrite (FeS2). Physica Status Solidi A, 1981, 65, 737-742.	1.7	7

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37	Plasma Synthesis of Nitrogen Clusters on Carbon Nanotube Sheets. Jom, 2014, 66, 608-615.	1.9	6
38	A Magnetic-Field-Assisted Milli-Scale Robotic Assembly Machine: An Approach to Parallel Robotic Automation Systems. Micromachines, 2018, 9, 144.	2.9	6
39	Assembly of Glass and Copolymer Particles on a Liquid Surface - An Experimental Study. Emerging Materials Research, 2020, 9, 1-5.	0.7	6
40	Developing sensors for multifunctional applications. Jom, 2000, 52, 14-14.	1.9	5
41	Thermoelectric Properties of Pristine and Doped Graphene Nanosheets and Graphene Nanoribbons: Part II. Jom, 2016, 68, 1660-1666.	1.9	5
42	Evidence of Silicon Band-Edge Emission Enhancement When Interfaced with SiO2:Er Films. Jom, 2017, 69, 241-246.	1.9	5
43	Synthesis and Stabilization of Cubic Gauche Polynitrogen under Radio-Frequency Plasma. Chemistry of Materials, 2022, 34, 4712-4720.	6.7	5
44	Temperature and voltage dependence of the barrier height in SnO2/Si solar cells. Physica Status Solidi A, 1982, 70, 623-630.	1.7	4
45	Electrical, Optical and Structural Properties of Thin SiO2 Films On Si. Materials Research Society Symposia Proceedings, 1987, 105, 169.	0.1	4
46	Transient-enhanced diffusion in shallow-junction formation. Journal of Electronic Materials, 2002, 31, 999-1003.	2.2	4
47	Modeling of Optical Properties of Black Silicon/Crystalline Silicon. Journal of Scientific and Industrial Metrology, 2016, 01, .	0.1	4
48	Radiative Properties of Thin Films of Common Dielectric Materials in the IR Spectral Range of 1.5–14.2Âμm: Application to Infrared Imaging. Jom, 2018, 70, 1267-1273.	1.9	4
49	The dependence of solar cell active layer resistance on illumination. International Journal of Electronics, 1981, 50, 499-504.	1.4	3
50	Grain Enhancement of Thin Silicon Layers Using Optical Processing. Materials Research Society Symposia Proceedings, 1997, 470, 419.	0.1	3
51	Silicon nanoelectronics and beyond: An overview and recent developments. Jom, 2005, 57, 16-20.	1.9	3
52	Engineered Stresses for a Functional Si Light Emitter at Bandgap: An Overview. Jom, 2019, 71, 4857-4866.	1.9	3
53	Electrical & Structural Properties of TiSi2 Films. Materials Research Society Symposia Proceedings, 1988, 116, 459.	0.1	2
54	Grain Enhancement of Polycrystalline Silicon Films Aided by Optical Excitation. Materials Research Society Symposia Proceedings, 1997, 485, 95.	0.1	2

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55	Flat-band Voltage Study Of Atomic-layer-Deposited Aluminum-oxide Subjected To Spike Thermal Annealing. Materials Research Society Symposia Proceedings, 2003, 765, 1.	0.1	2
56	The drive for further miniaturization: Silicon nanoelectronics. Jom, 2005, 57, 14-15.	1.9	2
57	Electron–hole superlattices in GaAs/AlxGa1â^'xAs multiple quantum wells. Philosophical Magazine, 2006, 86, 3581-3593.	1.6	2
58	Effects of crystal ordering and composition on properties of CdSxTe1â^xalloys: a first-principle insight. Nanomaterials and Energy, 2013, 2, 288-293.	0.2	2
59	Processing for Highly Emissive CZ-Silicon by Depositing Stressed Sol–Gel Films. Jom, 2014, 66, 643-648.	1.9	2
60	Ab Initio Calculations of Electronic Properties of Vanadium Oxides. Jom, 2015, 67, 3022-3029.	1.9	2
61	Ab Initio Calculations of Transport Properties of Vanadium Oxides. Jom, 2018, 70, 561-565.	1.9	2
62	Hydrophobically Modified Isosorbide Dimethacrylates as a Bisphenol-A (BPA)-Free Dental Filling Material. Materials, 2021, 14, 2139.	2.9	2
63	Formulation of UV Curable Resins Utilized in Vat Photo Polymerization for the Additive Manufacturing of Gun Propulsion Charge in 3D Printers (Update). Minerals, Metals and Materials Series, 2020, , 1945-1954.	0.4	2
64	Electrical and Optical Properties of Thermid Polyimide. Materials Research Society Symposia Proceedings, 1992, 247, 241.	0.1	1
65	Reflectance calculations of alkaline textured multicrystalline silicon: a new approach. Emerging Materials Research, 2014, 3, 10-18.	0.7	1
66	Other materials. , 2022, , 111-132.		1
67	Current—Voltage Measurements of Thermally Grown SiO2 Films on Etched Silicon Surfaces. Physica Status Solidi A, 1992, 129, 291-300.	1.7	O
68	Optical Properties of Thermally Oxidized Silicon. Materials Research Society Symposia Proceedings, 1994, 342, 319.	0.1	О
69	Theoretical Analysis of the Minority Carrier Lifetime in a Multicrystalline Wafer with Spatially Varying Defect Distribution. Materials Research Society Symposia Proceedings, 1998, 510, 373.	0.1	O
70	Advances in microelectronic processing. Jom, 2001, 53, 42-42.	1.9	0
71	Special issue on polymers and composite materials. Polymers for Advanced Technologies, 2015, 26, 1303-1305.	3.2	O
72	A "Press and Go―Thin Biofuel Cell Patch for Power Generation. Jom, 2019, 71, 3706-3710.	1.9	0

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73	Properties of Interfaced Materials and Films: Part II. Jom, 2019, 71, 4848-4849.	1.9	O
74	Properties of Interfaced Materials and Films: Part I. Jom, 2019, 71, 3696-3697.	1.9	0
75	Temperature Dependence of Energy Gap in Semiconductors—Influence on Solar Cell Performance. Minerals, Metals and Materials Series, 2021, , 259-268.	0.4	O
76	Infrared detector materials. , 2022, , 41-109.		0
77	A case study of an uncooled microbolometer. , 2022, , 257-298.		O
78	Present and future trends., 2022,, 299-308.		0