

# Nuggehalli M Ravindra

## List of Publications by Year in descending order

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78  
papers

1,727  
citations

448610

19  
h-index

325983

40  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1788  
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared detector materials. , 2022, , 41-109.		0
2	A case study of an uncooled microbolometer. , 2022, , 257-298.		0
3	Present and future trends. , 2022, , 299-308.		0
4	Other materials. , 2022, , 111-132.		1
5	Synthesis and Stabilization of Cubic Gauche Polynitrogen under Radio-Frequency Plasma. Chemistry of Materials, 2022, 34, 4712-4720.	3.2	5
6	Temperature Dependence of Energy Gap in Semiconductorsâ€™Influence on Solar Cell Performance. Minerals, Metals and Materials Series, 2021, , 259-268.	0.3	0
7	First-principles study of cubic alkaline-earth metal zirconate perovskites. Journal of Physics Communications, 2021, 5, 035006.	0.5	9
8	A Review: Advances and Modernization in U.S Army Gun Propellants. Jom, 2021, 73, 1144-1164.	0.9	13
9	Hydrophobically Modified Isosorbide Dimethacrylates as a Bisphenol-A (BPA)-Free Dental Filling Material. Materials, 2021, 14, 2139.	1.3	2
10	Additive Manufacturing of Sensors for Military Monitoring Applications. Polymers, 2021, 13, 1455.	2.0	18
11	Isosymmetric compression of cubic halide perovskites $\text{ABX}_3$ ( $A=K, Rb, Cs$ ) Tj ETQq1 1 0.784314 rgBT /Overlook Applied Sciences, 2021, 3, 1.	1.5	11
12	Thermochromic Polymeric Films for Applications in Active Intelligent Packagingâ€™An Overview. Micromachines, 2021, 12, 1193.	1.4	9
13	Temperature dependence of CIGS and perovskite solar cell performance: an overview. SN Applied Sciences, 2020, 2, 1.	1.5	26
14	CIGS and perovskite solar cells â€™ an overview. Emerging Materials Research, 2020, 9, 812-824.	0.4	9
15	Assembly of Glass and Copolymer Particles on a Liquid Surface - An Experimental Study. Emerging Materials Research, 2020, 9, 1-5.	0.4	6
16	Transdermal drug delivery and patchesâ€™An overview. Medical Devices & Sensors, 2020, 3, e10069.	2.7	43
17	Energy Gap-Refractive Index Relations in Perovskites. Materials, 2020, 13, 1917.	1.3	36
18	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.	0.3	2

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19	A $\alpha$ -Press and $\alpha$ -Thin Biofuel Cell Patch for Power Generation. Jom, 2019, 71, 3706-3710.	0.9	0
20	Properties of Interfaced Materials and Films: Part II. Jom, 2019, 71, 4848-4849.	0.9	0
21	Engineered Stresses for a Functional Si Light Emitter at Bandgap: An Overview. Jom, 2019, 71, 4857-4866.	0.9	3
22	Properties of Interfaced Materials and Films: Part I. Jom, 2019, 71, 3696-3697.	0.9	0
23	Ab Initio Calculations of Transport Properties of Vanadium Oxides. Jom, 2018, 70, 561-565.	0.9	2
24	Process Evaluation of AISI 4340 Steel Manufactured by Laser Powder Bed Fusion. Journal of Materials Engineering and Performance, 2018, 27, 63-71.	1.2	20
25	Radiative Properties of Thin Films of Common Dielectric Materials in the IR Spectral Range of 1.5 $\mu$ m–14.2 $\mu$ m: Application to Infrared Imaging. Jom, 2018, 70, 1267-1273.	0.9	4
26	A Magnetic-Field-Assisted Milli-Scale Robotic Assembly Machine: An Approach to Parallel Robotic Automation Systems. Micromachines, 2018, 9, 144.	1.4	6
27	Evidence of Silicon Band-Edge Emission Enhancement When Interfaced with SiO <sub>2</sub> :Er Films. Jom, 2017, 69, 241-246.	0.9	5
28	Modeling of Optical Properties of Black Silicon/Crystalline Silicon. Journal of Scientific and Industrial Metrology, 2016, 01, .	0.1	4
29	Thermoelectric Properties of Pristine and Doped Graphene Nanosheets and Graphene Nanoribbons: Part I. Jom, 2016, 68, 1653-1659.	0.9	8
30	Thermoelectric Properties of Pristine and Doped Graphene Nanosheets and Graphene Nanoribbons: Part II. Jom, 2016, 68, 1660-1666.	0.9	5
31	Special issue on polymers and composite materials. Polymers for Advanced Technologies, 2015, 26, 1303-1305.	1.6	0
32	Transport Property Measurements in Doped Bi <sub>2</sub> Te <sub>3</sub> Single Crystals Obtained via Zone Melting Method. Journal of Electronic Materials, 2015, 44, 1509-1516.	1.0	25
33	Ab Initio Calculations of Electronic Properties of Vanadium Oxides. Jom, 2015, 67, 3022-3029.	0.9	2
34	Metallurgical and Mechanical Evaluation of 4340 Steel Produced by Direct Metal Laser Sintering. Jom, 2015, 67, 582-589.	0.9	53
35	Optical Properties of Black Silicon: An Analysis. Jom, 2015, 67, 2154-2159.	0.9	18
36	Plasma Synthesis of Nitrogen Clusters on Carbon Nanotube Sheets. Jom, 2014, 66, 608-615.	0.9	6

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37	Processing for Highly Emissive CZ-Silicon by Depositing Stressed Sol-Gel Films. Jom, 2014, 66, 643-648.	0.9	2
38	Emissivity of Electronic Materials, Coatings, and Structures. Jom, 2014, 66, 616-636.	0.9	14
39	Reflectance calculations of alkaline textured multicrystalline silicon: a new approach. Emerging Materials Research, 2014, 3, 10-18.	0.4	1
40	Simulation of spectral emissivity of vanadium oxides (VOx)-based microbolometer structures. Emerging Materials Research, 2014, 3, 194-202.	0.4	9
41	Optical properties of vanadium oxides-an analysis. Journal of Materials Science, 2013, 48, 6341-6351.	1.7	88
42	Structural, thermodynamic and electronic properties of GaP <sub>x</sub> Sb <sub>1-x</sub> and InP <sub>x</sub> Sb <sub>1-x</sub> alloys. Emerging Materials Research, 2013, 2, 109-113.	0.4	12
43	Effects of crystal ordering and composition on properties of CdS <sub>x</sub> Te <sub>1-x</sub> alloys: a first-principle insight. Nanomaterials and Energy, 2013, 2, 288-293.	0.1	2
44	Pressure dependence of energy gap of III-V and II-VI ternary semiconductors. Journal of Materials Science, 2012, 47, 5735-5742.	1.7	21
45	Applications of porous silicon thin films in solar cells and biosensors. Jom, 2010, 62, 15-24.	0.9	25
46	Optical properties of metal phthalocyanines. Journal of Materials Science, 2010, 45, 4013-4020.	1.7	17
47	Modeling of Magnetic-Field-Assisted Assembly of Semiconductor Devices. Journal of Electronic Materials, 2008, 37, 374-378.	1.0	13
48	Advances in the manufacturing, types, and applications of biosensors. Jom, 2007, 59, 37-43.	0.9	29
49	Ion beam mixing for processing of nanostructure materials. Journal of Electronic Materials, 2006, 35, 834-839.	1.0	15
50	Rapid thermal processing of silicon wafers with emissivity patterns. Journal of Electronic Materials, 2006, 35, 877-891.	1.0	15
51	Electron-hole superlattices in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As multiple quantum wells. Philosophical Magazine, 2006, 86, 3581-3593.	0.7	2
52	The drive for further miniaturization: Silicon nanoelectronics. Jom, 2005, 57, 14-15.	0.9	2
53	Silicon nanoelectronics and beyond: An overview and recent developments. Jom, 2005, 57, 16-20.	0.9	3
54	Silicon-integrated uncooled infrared detectors: Perspectives on thin films and microstructures. Journal of Electronic Materials, 2005, 34, 484-490.	1.0	16

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55	The magnetic field-assisted assembly of nanoscale semiconductor devices: A new technique. Jom, 2004, 56, 32-34.	0.9	40
56	Light emission from silicon: Some perspectives and applications. Journal of Electronic Materials, 2003, 32, 1043-1051.	1.0	76
57	Modeling and simulation of emissivity of silicon-related materials and structures. Journal of Electronic Materials, 2003, 32, 1052-1058.	1.0	28
58	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
59	Transient-enhanced diffusion in shallow-junction formation. Journal of Electronic Materials, 2002, 31, 999-1003.	1.0	4
60	Advances in microelectronic processing. Jom, 2001, 53, 42-42.	0.9	0
61	Silicon device processing in H-ambients: H-diffusion mechanisms and influence on electronic properties. Journal of Electronic Materials, 2001, 30, 1616-1627.	1.0	52
62	Emissivity Measurements and Modeling of Silicon-Related Materials: An Overview. International Journal of Thermophysics, 2001, 22, 1593-1611.	1.0	91
63	Developing sensors for multifunctional applications. Jom, 2000, 52, 14-14.	0.9	5
64	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	0
65	Grain Enhancement of Thin Silicon Layers Using Optical Processing. Materials Research Society Symposia Proceedings, 1997, 470, 419.	0.1	3
66	Grain Enhancement of Polycrystalline Silicon Films Aided by Optical Excitation. Materials Research Society Symposia Proceedings, 1997, 485, 95.	0.1	2
67	Optical Properties of Thermally Oxidized Silicon. Materials Research Society Symposia Proceedings, 1994, 342, 319.	0.1	0
68	Electrical and Optical Properties of Thermid Polyimide. Materials Research Society Symposia Proceedings, 1992, 247, 241.	0.1	1
69	Current-Voltage Measurements of Thermally Grown SiO <sub>2</sub> Films on Etched Silicon Surfaces. Physica Status Solidi A, 1992, 129, 291-300.	1.7	0
70	Electrical & Structural Properties of TiSi <sub>2</sub> Films. Materials Research Society Symposia Proceedings, 1988, 116, 459.	0.1	2
71	Electrical, Optical and Structural Properties of Thin SiO <sub>2</sub> Films On Si. Materials Research Society Symposia Proceedings, 1987, 105, 169.	0.1	4
72	Temperature and voltage dependence of the barrier height in SnO <sub>2</sub> /Si solar cells. Physica Status Solidi A, 1982, 70, 623-630.	1.7	4

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73	Temperature dependence of the energy gap in pyrite (FeS <sub>2</sub> ). Physica Status Solidi A, 1981, 65, 737-742.	1.7	7
74	The dependence of solar cell active layer resistance on illumination. International Journal of Electronics, 1981, 50, 499-504.	0.9	3
75	Comments on the Moss Formula. Physica Status Solidi (B): Basic Research, 1980, 100, 715-719.	0.7	272
76	Properties of PbS, PbSe, and PbTe. Physica Status Solidi A, 1980, 58, 311-316.	1.7	38
77	On the Penn Gap in Semiconductors. Physica Status Solidi (B): Basic Research, 1979, 93, K155.	0.7	398
78	Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52, K151-K155.	1.7	34