

# Amit Pawbake

## List of Publications by Year in descending order

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40  
papers

1,221  
citations

535685

17  
h-index

406436

35  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure. Review of Scientific Instruments, 2021, 92, 123909.	0.6	2
2	Functional Monochalcogenides: Raman Evidence Linking Properties, Structure, and Metavalent Bonding. Physical Review Letters, 2020, 125, 145301.	2.9	15
3	Electrical transport properties of half-Heusler ScPdBi single crystals under extreme conditions. Journal of Alloys and Compounds, 2020, 848, 156632.	2.8	2
4	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS <sub>3</sub> Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	2.4	15
5	Structural, magnetotransport and Hall coefficient studies in ternary Bi <sub>2</sub> Te <sub>2</sub> Se, Sb <sub>2</sub> Te <sub>2</sub> Se and Bi <sub>2</sub> Te <sub>2</sub> S tetradymite topological insulating compounds. Journal of Alloys and Compounds, 2019, 794, 195-202.	2.8	11
6	Superior humidity sensor and photodetector of mesoporous ZnO nanosheets at room temperature. Sensors and Actuators B: Chemical, 2019, 293, 83-92.	4.0	84
7	Pressure-Induced Phase Transitions in Germanium Telluride: Raman Signatures of Anharmonicity and Oxidation. Physical Review Letters, 2019, 122, 145701.	2.9	33
8	Solvothermal synthesis of tin sulfide (SnS) nanorods and investigation of its field emission properties. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	24
9	Temperature and pressure dependent Raman spectroscopy of plasma treated multilayer graphene nanosheets. Diamond and Related Materials, 2018, 84, 146-156.	1.8	22
10	High Band Gap Nanocrystalline Tungsten Carbide (nc-WC) Thin Films Grown by Hot Wire Chemical Vapor Deposition (HW-CVD) Method. Journal of Nano- and Electronic Physics, 2018, 10, 03001-1-03001-6.	0.2	9
11	Single Crystal, High Band Gap CdS Thin Films Grown by RF Magnetron Sputtering in Argon Atmosphere for Solar Cell Applications. Journal of Nano- and Electronic Physics, 2018, 10, 03005-1-03005-6.	0.2	7
12	Chlorophyll-a/ZnO Nanorod Based Hybrid Photoanodes for Enhanced Photoelectrochemical Splitting of Water. ChemistrySelect, 2017, 2, 1911-1916.	0.7	4
13	Substrate temperature dependent studies on properties of chemical spray pyrolysis deposited CdS thin films for solar cell applications. Journal of Semiconductors, 2017, 38, 023001.	2.0	16
14	Synthesis of W <sub>3</sub> O thin films by hot wire-CVD and investigation of its humidity sensing properties. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600717.	0.8	11
15	Synthesis and Characterization of Chemical Spray Pyrolysed CZTS Thin Films for Solar Cell Applications. Energy Procedia, 2017, 110, 180-187.	1.8	46
16	Growth of Hydrogenated Nano-crystalline Silicon (nc-Si:H) Films by Plasma Enhanced Chemical Vapor Deposition (PE-CVD). Energy Procedia, 2017, 110, 45-52.	1.8	13
17	Structural and Optical Properties of CdTe Thin Films Deposited Using RF Magnetron Sputtering. Energy Procedia, 2017, 110, 188-195.	1.8	43
18	Electrochemical deposition of p-CdTe nanoparticle thin films for solar cell applications. Journal of Materials Science: Materials in Electronics, 2017, 28, 18745-18754.	1.1	9

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19	Synthesis of orthorhombic-molybdenum trioxide ( $\beta$ -MoO <sub>3</sub> ) thin films by hot wire-CVD and investigations of its humidity sensing properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 15790-15796.	1.1	44
20	Synthesis, characterization, and photovoltaic properties of TiO <sub>2</sub> /CdTe core-shell heterostructure for semiconductor-sensitized solar cells (SSSCs). Journal of Solid State Electrochemistry, 2017, 21, 2665-2676.	1.2	5
21	Substrate temperature dependent structural, optical, morphology and electrical properties of RF sputtered CdTe thin films for solar cell application. Journal of Materials Science: Materials in Electronics, 2016, 27, 12405-12411.	1.1	7
22	Properties of RF sputtered cadmium telluride (CdTe) thin films: Influence of deposition pressure. AIP Conference Proceedings, 2016, , .	0.3	3
23	Effect of plasma treatment on multilayer graphene: X-ray photoelectron spectroscopy, surface morphology investigations and work function measurements. RSC Advances, 2016, 6, 48843-48850.	1.7	22
24	Temperature Dependent Raman Spectroscopy and Sensing Behavior of Few Layer SnSe <sub>2</sub> Nanosheets. ChemistrySelect, 2016, 1, 5380-5387.	0.7	35
25	Spatially branched CdS@Bi <sub>2</sub> S <sub>3</sub> heteroarchitecture: single step hydrothermal synthesis approach with enhanced field emission performance and highly responsive broadband photodetection. RSC Advances, 2016, 6, 95092-95100.	1.7	13
26	Wide band gap and conducting tungsten carbide (WC) thin films prepared by hot wire chemical vapor deposition (HW-CVD) method. Materials Letters, 2016, 183, 315-317.	1.3	24
27	Influence of RF power on structural optical and electrical properties of hydrogenated nano-crystalline silicon (nc-Si:H) thin films deposited by PE-CVD. Journal of Materials Science: Materials in Electronics, 2016, 27, 12365-12373.	1.1	4
28	Hot wire chemical vapor deposited multiphase silicon carbide (SiC) thin films at various filament temperatures. Journal of Materials Science: Materials in Electronics, 2016, 27, 12340-12350.	1.1	4
29	Temperature dependent Raman spectroscopy of electrochemically exfoliated few layer black phosphorus nanosheets. RSC Advances, 2016, 6, 76551-76555.	1.7	40
30	High performance humidity sensor and photodetector based on SnSe nanorods. Materials Research Express, 2016, 3, 105038.	0.8	62
31	Low substrate temperature deposition of transparent and conducting ZnO:Al thin films by RF magnetron sputtering. Journal of Semiconductors, 2016, 37, 043001.	2.0	8
32	Highly Transparent Wafer-Scale Synthesis of Crystalline WS <sub>2</sub> Nanoparticle Thin Film for Photodetector and Humidity-Sensing Applications. ACS Applied Materials & Interfaces, 2016, 8, 3359-3365.	4.0	226
33	Enhanced field emission behavior of layered MoSe <sub>2</sub> . Materials Research Express, 2016, 3, 035003.	0.8	31
34	Growth of boron doped hydrogenated nanocrystalline cubic silicon carbide (3C-SiC) films by Hot Wire-CVD. Materials Research Bulletin, 2016, 76, 205-215.	2.7	16
35	Large area chemical vapor deposition of monolayer transition metal dichalcogenides and their temperature dependent Raman spectroscopy studies. Nanoscale, 2016, 8, 3008-3018.	2.8	186
36	Influence of RF power on structural, morphology, electrical, composition and optical properties of Al-doped ZnO films deposited by RF magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2016, 27, 1134-1143.	1.1	26

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37	Film Thickness Effects on Morphology, Optical and Structural Properties of Chemical Bath Deposition Grown CdS Thin Films for Solar Cell Applications. <i>Advanced Science Letters</i> , 2016, 22, 854-858.	0.2	2
38	Effect of calcination on structural, morphological and photoelectrochemical performance of SnO <sub>2</sub> /TiO <sub>2</sub> nanostructure films. <i>Thin Solid Films</i> , 2015, 589, 493-502.	0.8	8
39	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS <sub>3</sub> ) Nanoribbons and Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24185-24190.	4.0	89
40	Synthesis of nanocrystalline silicon carbide thin films by HW-CVD using ethane carbon precursor for photo detector application. , 2015, , .		0