

# Amartya Sengupta

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

1,145  
citations

840119

11  
h-index

642321

23  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2245  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of the Concept, Applications and Implementation Issues of Terahertz Spectral Imaging Technique. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2022, 39, 471-489.	2.1	29
2	Physics of effective media in plastic polymer-composites using THz Time-Domain Spectroscopy. Journal Physics D: Applied Physics, 2022, 55, 095303.	1.3	4
3	Dual spectroscopic detection of THz energy modes of critical chemical compounds. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 271, 120923.	2.0	3
4	Sub-surface damage detection in marble structures using THz time domain and laser feedback interferometric imaging techniques. , 2021, , .		1
5	Quantifying relative moisture content in dielectric models using CW-THz spectroscopy and supervised machine learning regression. , 2021, , .		1
6	Melt-diffused binary solidâ€“solid ionic mixture in a porous polymeric host as free-standing solid electrolyte for lithium batteries. Journal of Electroanalytical Chemistry, 2021, 899, 115698.	1.9	6
7	Critical spectroscopic considerations towards reliable detection of material using terahertz time-domain spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 268, 120632.	2.0	3
8	Environment Dependent Propagation Response of High Frequency THz Band Antenna in Short Range. , 2021, , .		0
9	Structure and morphology of atomic layer deposition grown ZnO thin film/nanostructure on polymeric template. Materials Today: Proceedings, 2019, 18, 1517-1523.	0.9	3
10	Near room temperature atomic layer deposition of ZnO thin films on poly (methyl methacrylate) (PMMA) templates: A study of structure, morphology and photoluminescence of ZnO as an effect of template confinement. Vacuum, 2019, 161, 398-403.	1.6	11
11	Violet Emission of ALDâ€“Grown ZnO Nanostructures on Confined Polymer Films: Defect Origins and Emission Control via Interface Engineering Based on Confinement of the Bottom Polymer Template. Macromolecular Chemistry and Physics, 2019, 220, 1800435.	1.1	2
12	Micro-Raman spectroscopy and THz time domain spectroscopic imaging of Pietra Dura marble inlay work resembling Taj Mahal architectural motifs. , 2019, , .		2
13	Functionalized THz Waveguide to Study Strain Generated by High Pressure and/or High Temperature Observed in Harsh Environments. , 2018, , .		0
14	Structure and morphology of magnetron sputter deposited ultrathin ZnO films on confined polymeric template. Applied Surface Science, 2017, 414, 114-123.	3.1	18
15	Tunable optical properties in atomic layer deposition grown ZnO thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	24
16	Transparent Large Anvil Press for In-situ Raman and Laser Heating. Journal of Physics: Conference Series, 2012, 377, 012002.	0.3	4
17	Graphene-based wireless bacteria detection on tooth enamel. Nature Communications, 2012, 3, 763.	5.8	806
18	Polymerization of Carbon Dioxide: A Chemistry View of Molecular-to-Nonmolecular Phase Transitions. Journal of Physical Chemistry C, 2012, 116, 2061-2067.	1.5	19

#	ARTICLE	IF	CITATIONS
19	Phase diagram of carbon dioxide: update and challenges. High Pressure Research, 2011, 31, 68-74.	0.4	15
20	Carbon Dioxide Carbonates in the Earth's Mantle: Implications to the Deep Carbon Cycle. Angewandte Chemie - International Edition, 2011, 50, 11219-11222.	7.2	28
21	Coesite-like $\text{CO}_2$ An analog to $\text{SiO}_2$ Physical Review B, 2010, 82, .	1.1	22
22	Raman studies of molecular-to-nonmolecular transitions in carbon dioxide at high pressures and temperatures. Physical Review B, 2009, 80, .	1.1	20
23	TERAHERTZ INTERFEROMETRIC AND SYNTHETIC APERTURE IMAGING. International Journal of High Speed Electronics and Systems, 2007, 17, 431-443.	0.3	2
24	TERAHERTZ INTERFEROMETRIC AND SYNTHETIC APERTURE IMAGING. Selected Topics in Electornics and Systems, 2007, , 239-251.	0.2	0
25	ARTIFICIAL NEURAL NETWORK ANALYSIS IN INTERFEROMETRIC THz IMAGING FOR DETECTION OF LETHAL AGENTS. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 1145-1158.	0.6	8
26	Effects of Scattering on THz Spectra of Granular Solids. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 969-978.	0.6	53
27	A non contact characterization technique of the defect states of high k dielectrics using THz radiation. , 2006, , .		0
28	Interferometric terahertz imaging for detection of lethal agents using artificial neural network analyses. , 2006, , .		1
29	Terahertz interferometric and synthetic aperture imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1168.	0.8	40
30	Grain size dependent scattering studies of common materials using THz time domain techniques. , 2006, 6120, 117.		5
31	Adaptive design of dual excitation ultra-low wavenumber Raman spectroscopy system. Journal of Raman Spectroscopy, 0, , .	1.2	0