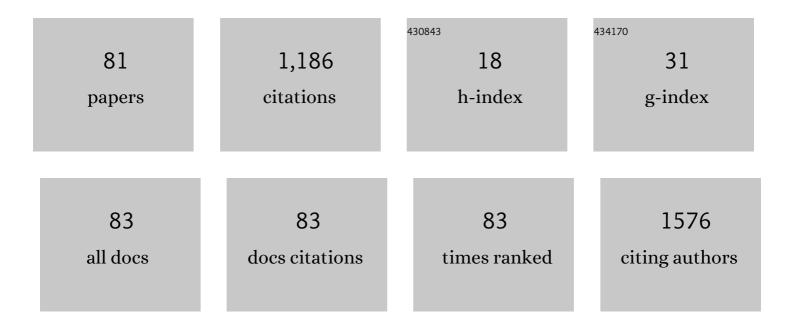
Arup Neogi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Laser Ablated Carbon Nanodots for Light Emission. Nanoscale Research Letters, 2016, 11, 424.	5.7	103
2	Multitask deep-learning-based design of chiral plasmonic metamaterials. Photonics Research, 2020, 8, 1213.	7.0	61
3	1.45 µm Intersubband Absorption in InGaAs/AlAsSb Grown by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 1999, 38, 1286-1289.	1.5	50
4	Oscillating magnetic field-actuated microvalves for micro- and nanofluidics. Journal Physics D: Applied Physics, 2009, 42, 135501.	2.8	36
5	Optimization of nonlinear optical properties of ZnO micro and nanocrystals for biophotonics. Optical Materials Express, 2011, 1, 658.	3.0	34
6	Tunable ultrasonic phononic crystal controlled by infrared radiation. Applied Physics Letters, 2014, 105, .	3.3	34
7	Hybrid Zinc Oxide Nanoparticles for Biophotonics. Journal of Nanoscience and Nanotechnology, 2010, 10, 1707-1712.	0.9	33
8	Nondestructive ultrasonic evaluation of fused deposition modeling based additively manufactured 3D-printed structures. Smart Materials and Structures, 2020, 29, 045020.	3.5	33
9	Electric field enhanced photoluminescence of CdTe quantum dots encapsulated in poly (N-isopropylacrylamide) nano-spheres. Optics Express, 2008, 16, 19410.	3.4	30
10	Bioimaging Using the Optimized Nonlinear Optical Properties of ZnO Nanoparticles. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1451-1456.	2.9	28
11	Sub-wavelength lateral detection of tissue-approximating masses using an ultrasonic metamaterial lens. Nature Communications, 2020, 11, 5967.	12.8	26
12	Resonant surface plasmon-induced modification of photoluminescence from GaN/AlN quantum dots. Nanotechnology, 2004, 15, 1252-1255.	2.6	25
13	Thermally Tunable Dynamic and Static Elastic Properties of Hydrogel Due to Volumetric Phase Transition. Polymers, 2020, 12, 1462.	4.5	25
14	Coupling of spontaneous emission from GaN–AlN quantum dots into silver surface plasmons. Optics Letters, 2005, 30, 93.	3.3	22
15	A Review of Diagnostics Methodologies for Metal Additive Manufacturing Processes and Products. Materials, 2021, 14, 4929.	2.9	19
16	Tunable Hybrid Phononic Crystal Lens Using Thermo-Acoustic Polymers. ACS Omega, 2019, 4, 16585-16590.	3.5	18
17	Enhanced Instantaneous Elastography in Tissues and Hard Materials Using Bulk Modulus and Density Determined Without Externally Applied Material Deformation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 624-634.	3.0	18
18	Second harmonic imaging of plants tissues and cell implosion using twoâ€photon process in ZnO nanoparticles. Journal of Biophotonics, 2012, 5, 283-291.	2.3	16

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19	Radio-frequency actuated polymer-based phononic meta-materials for control of ultrasonic waves. NPG Asia Materials, 2017, 9, e350-e350.	7.9	16
20	The effects of temperature and frequency dispersion on sound speed in bulk poly (vinyl alcohol) poly (N-isopropylacrylamide) hydrogels caused by the phase transition. Ultrasonics, 2020, 104, 105931.	3.9	16
21	Crystallographic texture dependent bulk anisotropic elastic response of additively manufactured Ti6Al4V. Scientific Reports, 2021, 11, 633.	3.3	16
22	Thermomechanically influenced dynamic elastic constants of laser powder bed fusion additively manufactured Ti6Al4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 811, 140990.	5.6	16
23	Manufacturing and Characterization of Hybrid Bulk Voxelated Biomaterials Printed by Digital Anatomy 3D Printing. Polymers, 2021, 13, 123.	4.5	16
24	Novel 2D Dynamic Elasticity Maps for Inspection of Anisotropic Properties in Fused Deposition Modeling Objects. Polymers, 2020, 12, 1966.	4.5	14
25	Energy transfer in ZnO-anthracene hybrid structure. Optical Materials Express, 2012, 2, 526.	3.0	13
26	Long-range nonspreading propagation of sound beam through periodic layered structure. Communications Physics, 2020, 3, .	5.3	13
27	Competition Between Resonant Plasmonic Coupling and Electrostatic Interaction in Reduced Graphene Oxide Quantum Dots. Scientific Reports, 2016, 6, 36898.	3.3	12
28	Absorption Saturation of Intersubband Transition in InGaAs/AlAsSb Quantum Well Characterized by Absorption Spectral Analysis. Japanese Journal of Applied Physics, 2001, 40, L1015-L1018.	1.5	10
29	Localized Surface Plasmon Polariton Enhanced Radiative Recombination in Ion-Implanted Silicon Emitters. Applied Physics Express, 2010, 3, 102201.	2.4	10
30	Localization of ultrasound in 2D phononic crystal with randomly oriented asymmetric scatterers. Journal of Applied Physics, 2021, 129, .	2.5	10
31	Absorption and emission modulation in a MoS ₂ –GaN (0001) heterostructure by interface phonon–exciton coupling. Photonics Research, 2019, 7, 1511.	7.0	10
32	Anomalous temperature dependence of speed of sound of bulk poly(N-isopropylacrylamide) hydrogels near the phase transition. Ultrasonics, 2014, 54, 1337-1340.	3.9	9
33	Broad band light emission from Ag-ion implanted silicon nanocrystals. Solid State Communications, 2011, 151, 1405-1409.	1.9	8
34	Influence of localized electric field on the bandedge emission of hybrid Au-GaN/InGaN quantum wells. Applied Physics Letters, 2011, 99, 121905.	3.3	8
35	Hyperspectral Nonlinear Optical Light Generation from a Monolithic GaN Microcavity. Advanced Optical Materials, 2017, 5, 1600804.	7.3	8
36	All-acoustic signal modulation and logic operation via defect induced cavity effects in phononic crystal coupled-resonator acoustic waveguides. New Journal of Physics, 2019, 21, 113012.	2.9	8

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37	Non-reciprocal acoustics in a viscous environment. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200657.	2.1	8
38	Ultrasonic elastography for nondestructive evaluation of dissimilar material joints. Journal of Materials Processing Technology, 2022, 299, 117301.	6.3	8
39	Mechanically tunable ultrasonic metamaterial lens with a subwavelength resolution at long working distances for bioimaging. Smart Materials and Structures, 2021, 30, 015022.	3.5	8
40	CONTROL OF LIGHT SCATTERING INDUCED SHIFT IN PHOTOLUMINESCENCE FROM CDTE QUANTUM DOTS ENCAPSULATED IN POLYâ€ACRYLAMIDE GEL NANOSPHERES. Soft Materials, 2009, 7, 232-241.	1.7	7
41	Origin of room temperature broadband light emission and carrier dynamics in Ag ion-implanted Silicon nanocrystals. Optical Materials Express, 2012, 2, 501.	3.0	7
42	Low-Temperature Synthesis of Fe-Doped ZnO Nanotubes. Journal of Electronic Materials, 2012, 41, 2155-2161.	2.2	7
43	Comparison of electrostatic and localized plasmon induced light enhancement in hybrid InGaN/GaN quantum wells. Applied Physics Letters, 2014, 104, 242106.	3.3	7
44	Plasmonically Induced Transparency in Graphene Oxide Quantum Dots with Dressed Phonon States. ACS Photonics, 2018, 5, 614-620.	6.6	7
45	Active Control of Coherent Dynamics in Hybrid Plasmonic MoS ₂ Monolayers with Dressed Phonons. ACS Photonics, 2019, 6, 1645-1655.	6.6	7
46	In-situ monitoring and ex-situ elasticity mapping of laser induced metal melting pool using ultrasound: Numerical and experimental approaches. Journal of Manufacturing Processes, 2021, 71, 178-186.	5.9	7
47	Simultaneous negative reflection and refraction and reverse-incident right-angle collimation of sound in a solid-fluid phononic crystal. Journal of the Acoustical Society of America, 2022, 151, 2723-2731.	1.1	7
48	Photoluminescence characterization of type II InGaAs/AlAsSb heterostructures lattice matched to InP grown by molecular beam epitaxy. Journal of Crystal Growth, 2000, 209, 445-449.	1.5	6
49	Plasmonically-powered hot carrier induced modulation of light emission in a two-dimensional GaAs semiconductor quantum well. Nanoscale, 2019, 11, 3827-3836.	5.6	6
50	Optimization of the Spatial Configuration of Local Defects in Phononic Crystals for High Q Cavity. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	6
51	Carrier Dynamics in UV InGaN Multiple Quantum Well Inverted Hexagonal Pits. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1400-1405.	2.9	5
52	Acoustic Metasurface-Aided Broadband Noise Reduction in Automobile Induced by Tire-Pavement Interaction. Materials, 2021, 14, 4262.	2.9	5
53	Structural Stability of Bilayer MoS ₂ in Ambient Air. Advanced Materials Interfaces, 2021, 8, 2101188.	3.7	5
54	Spatial Decomposition of a Broadband Pulse Caused by Strong Frequency Dispersion of Sound in Acoustic Metamaterial Superlattice. Materials, 2021, 14, 125.	2.9	5

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55	Efficient All-Optical Interband Light Modulation by Ultrafast Manipulation of Intersubband Transitions in an Asymmetric Quantum Well*. Japanese Journal of Applied Physics, 1999, 38, 1290-1293.	1.5	4
56	Optical Devices: Enhancement of Spontaneous Emission Rate by Resonant Surface Plasmon Coupling. Optics and Photonics News, 2002, 13, 38.	0.5	4
57	QUANTUM DOT COMPUTING GATES. International Journal of Quantum Information, 2006, 04, 233-296.	1.1	4
58	Enhanced photoluminescence emission from anthracene-doped polyphenylsiloxane glass. Optics Letters, 2013, 38, 5224.	3.3	4
59	Numerically Trained Ultrasound AI for Monitoring Tool Degradation. Advanced Intelligent Systems, 2022, 4, .	6.1	4
60	Refractive Index Change in Nanoscale Thermosensitive Hydrogel for Optoelectronic and Biophotonic Applications. Materials Research Society Symposia Proceedings, 2007, 1060, 60801.	0.1	3
61	Metallic Nanodroplet Induced Coulomb Catalysis for Off-Resonant Plasmonic Enhancement of Photoemission in Semiconductors. ACS Omega, 2016, 1, 19-28.	3.5	3
62	Analyzing growth kinematics and fractal dimensions of molybdenum disulfide films. Nanotechnology, 2021, 32, 245602.	2.6	3
63	Ultrasound Imaging by Thermally Tunable Phononic Crystal Lens. International Journal of Molecular Sciences, 2021, 22, 7966.	4.1	3
64	ULTRAFAST PHOTO-INDUCED ABSORPTION CHANGE IN INORGANIC-ORGANIC MUTIPLE QUANTUM WELL COMPOUND. International Journal of Modern Physics B, 2001, 15, 3741-3744.	2.0	2
65	Temperature-Insensitive Intersubband-Transitions in InGaAs/AlAsSb Multiple Quantum Well Designed for Optical Communication Wavelength*. Japanese Journal of Applied Physics, 2001, 40, L558-L560.	1.5	2
66	CdTe quantum dot in tunable hydrogel nanocrystals. , 2007, , .		2
67	Intrinsic Polarization of Self-Assembled Guanosine Supramolecules in GaN-Based Metal–Semiconductor–Metal Nano-Structures. Journal of Display Technology, 2009, 5, 446-451.	1.2	2
68	Energy transfer induced enhancement of localized exciton emission in ZnO nanoparticle–anthracene hybrid films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1089-1092.	2.4	2
69	Longitudinal Monostatic Acoustic Effective Bulk Modulus and Effective Density Evaluation of Underground Soil Quality: A Numerical Approach. Applied Sciences (Switzerland), 2021, 11, 146.	2.5	2
70	Growth of Monolayer MoS2 on Hydrophobic Substrates as a Novel and Feasible Method to Prevent the Ambient Degradation of Monolayer MoS2. MRS Advances, 2020, 5, 2707-2715.	0.9	1
71	Thermally Tunable Acoustic Beam Splitter Based on Poly(vinyl alcohol) Poly(N-isopropylacrylamide) Hydrogel. Gels, 2021, 7, 140.	4.5	1
72	Ultrafast All-Optical Switching Based on Inter-Subband Transition in GaN/AlGaN and InGaAs/AlAsSb Multiple Quantum Wells. Optics and Photonics News, 2000, 11, 45.	0.5	0

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73	Resonant Energy Transfer due to Exciton Coupling in Hybrid Persovskites Conjugated to GaN Semiconductors. Materials Research Society Symposia Proceedings, 2006, 955, 1.	0.1	0
74	Enhanced Luminescence Efficiency from Hydrogel Microbead Encapsulated Quantum Dots. Materials Research Society Symposia Proceedings, 2006, 959, 1.	0.1	0
75	Resonant energy transfer due to exciton-exciton interaction in the strong coupling regime in Hybrid InGaN Quantum Wells. , 2007, , .		0
76	Tunable Photonic Crystals Incorporating Variable Refractive Index Organic Polymers. , 2008, , .		0
77	Near-field optical spectroscopy of Ga nanoparticles for plasmonics. , 2008, , .		0
78	Carrier-induced nonlinearities in InGaN/GaN quantum wells with V-pits. MRS Communications, 2012, 2, 55-60.	1.8	0
79	Second harmonic quasi whispering gallery modes in a GaN micro-cavity. , 2017, , .		0
80	Observation of plasmonically induced transparency by the pump-probe technique. European Physical Journal: Special Topics, 2021, 230, 951-962.	2.6	0
81	Maxwell-Wagner-Sillars Dynamics and Enhanced Radio-Frequency Elastomechanical Susceptibility in PNIPAm Hydrogel-KF-doped Barium Titanate Nanoparticle Composites. Nanoscale Research Letters, 2019, 14, 385	5.7	Ο