

Gajendra S Shekhawat

List of Publications by Year in descending order

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42
papers

2,085
citations

331670

21
h-index

302126

39
g-index

43
all docs

43
docs citations

43
times ranked

3169
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy landscapes and functions of supramolecular systems. <i>Nature Materials</i> , 2016, 15, 469-476.	27.5	348
2	MOSFET-Embedded Microcantilevers for Measuring Deflection in Biomolecular Sensors. <i>Science</i> , 2006, 311, 1592-1595.	12.6	270
3	Nanoscale Imaging of Buried Structures via Scanning Near-Field Ultrasound Holography. <i>Science</i> , 2005, 310, 89-92.	12.6	233
4	Uniaxial Expansion of the 2D Ruddlesden-Popper Perovskite Family for Improved Environmental Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 5518-5534.	13.7	193
5	Imaging nanoparticles in cells by nanomechanical holography. <i>Nature Nanotechnology</i> , 2008, 3, 501-505.	31.5	152
6	Ethylenediammonium-Based "Hollow" Pb/Sn Perovskites with Ideal Band Gap Yield Solar Cells with Higher Efficiency and Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 8627-8637.	13.7	93
7	Out-of-Plane Mechanical Properties of 2D Hybrid Organic-Inorganic Perovskites by Nanoindentation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22167-22173.	8.0	64
8	Stretching and Breaking of Ultrathin 2D Hybrid Organic-Inorganic Perovskites. <i>ACS Nano</i> , 2018, 12, 10347-10354.	14.6	60
9	Elastic phase response of silica nanoparticles buried in soft matter. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	55
10	Single-Crystal Polycationic Polymers Obtained by Single-Crystal-to-Single-Crystal Photopolymerization. <i>Journal of the American Chemical Society</i> , 2020, 142, 6180-6187.	13.7	50
11	Probing Strain-Induced Band Gap Modulation in 2D Hybrid Organic-Inorganic Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 796-802.	17.4	47
12	Exploring the Factors Affecting the Mechanical Properties of 2D Hybrid Organic-Inorganic Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20440-20447.	8.0	47
13	Ultrasound holography for noninvasive imaging of buried defects and interfaces for advanced interconnect architectures. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	39
14	Highly sensitive and ultra-rapid antigen-based detection of SARS-CoV-2 using nanomechanical sensor platform. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113647.	10.1	34
15	Nano-Biomechanical Study of Spatio-Temporal Cytoskeleton Rearrangements that Determine Subcellular Mechanical Properties and Endothelial Permeability. <i>Scientific Reports</i> , 2015, 5, 11097.	3.3	31
16	Mammary epithelium-specific inactivation of V _{ATPase} reduces stiffness of extracellular matrix and enhances metastasis of breast cancer. <i>Molecular Oncology</i> , 2018, 12, 208-223.	4.6	29
17	Mapping Hot Spots at Heterogeneities of Few-Layer Ti ₃ C ₂ MXene Sheets. <i>ACS Nano</i> , 2019, 13, 3301-3309.	14.6	29
18	Neuronal Protein 3.1 Deficiency Leads to Reduced Cutaneous Scar Collagen Deposition and Tensile Strength due to Impaired Transforming Growth Factor- β ₁ to - β ₃ Translation. <i>American Journal of Pathology</i> , 2017, 187, 292-303.	3.8	26

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19	Development of ultrasound bioprobe for biological imaging. <i>Science Advances</i> , 2017, 3, e1701176.	10.3	24
20	Probing Buried Defects in Extreme Ultraviolet Multilayer Blanks Using Ultrasound Holography. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 671-674.	2.0	23
21	Contrast mechanisms on nanoscale subsurface imaging in ultrasonic AFM: scattering of ultrasonic waves and contact stiffness of the tip-sample. <i>Nanoscale</i> , 2017, 9, 2330-2339.	5.6	23
22	Nanomechanoelectronic signal transduction scheme with metal-oxide-semiconductor field-effect transistor-embedded microcantilevers. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	20
23	A novel crosslinking protocol stabilizes amyloid β^2 oligomers capable of inducing Alzheimer's-associated pathologies. <i>Journal of Neurochemistry</i> , 2019, 148, 822-836.	3.9	20
24	Integrated MOSFET-Embedded-Cantilever-Based Biosensor Characteristic for Detection of Anthrax Simulant. <i>IEEE Electron Device Letters</i> , 2011, 32, 408-410.	3.9	19
25	Microcantilevers to lift biomolecules. <i>Nature Nanotechnology</i> , 2015, 10, 830-831.	31.5	19
26	Micromachined Chip Scale Thermal Sensor for Thermal Imaging. <i>ACS Nano</i> , 2018, 12, 1760-1767.	14.6	19
27	A simple novel device for air sampling by electrokinetic capture. <i>Microbiome</i> , 2015, 3, 79.	11.1	18
28	Spatial Mapping of Hotspots at Lateral Heterogeneities in Monolayer Transition Metal Dichalcogenides. <i>Advanced Materials</i> , 2019, 31, 1808244.	21.0	16
29	Structured silicon for revealing transient and integrated signal transductions in microbial systems. <i>Science Advances</i> , 2020, 6, eaay2760.	10.3	14
30	Bent on detecting cancer. <i>Nature Nanotechnology</i> , 2013, 8, 77-78.	31.5	13
31	High resolution atomic force microscopy imaging of molecular self assembly in liquids using thermal drift corrected cantilevers. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	10
32	Thickness Resonance Acoustic Microscopy for Nanomechanical Subsurface Imaging. <i>ACS Nano</i> , 2017, 11, 6139-6145.	14.6	10
33	Insights into the mechanism of Alzheimer's β^2 -amyloid aggregation as a function of concentration by using atomic force microscopy. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	7
34	Selective Expansion of Skeletal Muscle Stem Cells from Bulk Muscle Cells in Soft Three-Dimensional Fibrin Gel. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1412-1423.	3.3	7
35	A cortactin CTTN coding SNP contributes to lung vascular permeability and inflammatory disease severity in African descent subjects. <i>Translational Research</i> , 2022, 244, 56-74.	5.0	6
36	Rapid and Sensitive Detection of Antigen from SARS-CoV-2 Variants of Concern by a Multivalent Minibinder-Functionalized Nanomechanical Sensor. <i>Analytical Chemistry</i> , 2022, 94, 8105-8109.	6.5	6

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37	Green synthesis and characterization of size tunable silica-capped gold core-shell nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	5
38	Microcantilever array with embedded metal oxide semiconductor field effect transistor actuators for deflection control, deflection sensing, and high frequency oscillation. Applied Physics Letters, 2009, 94, 224103.	3.3	3
39	Evaluation Of a Compact Ionic Capture Device For Airborne Allergens In Inner City Schools. Journal of Allergy and Clinical Immunology, 2014, 133, AB187.	2.9	1
40	MOSFET-Embedded Microcantilevers: An All-Electronic Label- and Optics-Free Signal Transduction Paradigm for Bio-Chem Sensing. , 2006, , .		0
41	Comparison of Sample Preparation Methods for Analysis of Mucus-Secreting Colon Cancer Cells by Scanning Electron Microscopy. Microscopy and Microanalysis, 2015, 21, 185-186.	0.4	0
42	Towards non-invasive high-resolution 3D nano-tomography by ultrasonic scanning probe microscopy. , 2017, , .		0