

Keshav Dani

List of Publications by Year in descending order

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3834
citing authors

#	ARTICLE	IF	CITATIONS
1	Through the Lens of a Momentum Microscope: Viewing Light-Induced Quantum Phenomena in 2D Materials. <i>Advanced Materials</i> , 2023, 35, .	21.0	4
2	Nanoscale chemical heterogeneity dominates the optoelectronic response of alloyed perovskite solar cells. <i>Nature Nanotechnology</i> , 2022, 17, 190-196.	31.5	75
3	An On-Demand Drug Delivery System for Control of Epileptiform Seizures. <i>Pharmaceutics</i> , 2022, 14, 468.	4.5	5
4	Structure of the moiré exciton captured by imaging its electron and hole. <i>Nature</i> , 2022, 603, 247-252.	27.8	51
5	Dominating Interlayer Resonant Energy Transfer in Type-II 2D Heterostructure. <i>ACS Nano</i> , 2022, 16, 3861-3869.	14.6	11
6	Local nanoscale phase impurities are degradation sites in halide perovskites. <i>Nature</i> , 2022, 607, 294-300.	27.8	89
7	Unraveling the varied nature and roles of defects in hybrid halide perovskites with time-resolved photoemission electron microscopy. <i>Energy and Environmental Science</i> , 2021, 14, 6320-6328.	30.8	34
8	Monolithic Patch-Antenna THz Lasers with Extremely Low Beam Divergence and Polarization Control. <i>ACS Photonics</i> , 2021, 8, 412-417.	6.6	7
9	Visualization of two-dimensional transition dipole moment texture in momentum space using high-harmonic generation spectroscopy. <i>Physical Review B</i> , 2021, 103, .	3.2	25
10	Experimental measurement of the intrinsic excitonic wave function. <i>Science Advances</i> , 2021, 7, .	10.3	49
11	Photoconductive emitters for pulsed terahertz generation. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 064001.	2.2	30
12	Transition dipole moment structure revealed by high harmonic generation spectroscopy in thin layer black phosphorus. , 2021, , .		0
13	Ultrafast Frequency-Shift Dynamics at Temporal Boundary Induced by Structural-Dispersion Switching of Waveguides. <i>Physical Review Letters</i> , 2021, 127, 053902.	7.8	22
14	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 353001.	1.8	55
15	Strong Plasmon-Exciton Coupling in Ag Nanoparticle-Conjugated Polymer Core-Shell Hybrid Nanostructures. <i>Polymers</i> , 2020, 12, 2141.	4.5	3
16	Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. <i>Science</i> , 2020, 370, 1199-1204.	12.6	149
17	Examining the surface phase diagram of IrTe_2 with photoemission. <i>Physical Review B</i> , 2020, 101, .		
18	Ultrafast Control of the Dimensionality of Exciton-Exciton Annihilation in Atomically Thin Black Phosphorus. <i>Physical Review Letters</i> , 2020, 124, 057403.	7.8	16

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19	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	27.8	255
20	Terahertz Emission Properties from Fe/Pt Metallic Spintronic Hetero-Structures. , 2020, , .		0
21	Improving Signal and Photobleaching Characteristics of Temporal Focusing Microscopy with the Increase in Pulse Repetition Rate. Methods and Protocols, 2019, 2, 65.	2.0	0
22	Charge transfer dynamics in conjugated polymer/MoS ₂ organic/2D heterojunctions. Molecular Systems Design and Engineering, 2019, 4, 929-938.	3.4	18
23	Patch Antenna Microcavities THz Quantum Cascade Lasers. , 2019, , .		1
24	Symmetry and optical selection rules in graphene quantum dots. Physical Review B, 2018, 97, .	3.2	9
25	High-Temperature Terahertz Optical Diode Effect without Magnetic Order in Polar FeZnMoO_8 . Physical Review Letters, 2018, 120, 027601.	3.0	36
26	Ultrafast dynamics and subwavelength periodic structure formation following irradiation of GaAs with femtosecond laser pulses. Physical Review B, 2018, 98, .	3.2	22
27	Directly photoexcited Dirac and Weyl fermions in ZrSiS and NbAs. Applied Physics Letters, 2018, 113, .	3.3	13
28	Using coherent phonons for ultrafast control of the Dirac node of SrMnSb ₂ . Physical Review B, 2018, 98, .	3.2	14
29	Pulling apart photoexcited electrons by photoinducing an in-plane surface electric field. Science Advances, 2018, 4, eaat9722.	10.3	29
30	Probing Charge Transfer States in Polymer:Fullerene â€^{c} MoS ₂ van der Waals Heterostructures. , 2018, , .		1
31	Investigation of Trap States and Their Dynamics in Hybrid Organic-inorganic Mixed Cation Perovskite Films Using Time Resolved Photoemission Electron Microscopy. , 2018, , .		2
32	Terahertz photoconductivity and photocarrier dynamics in few-layer hBN/WS ₂ van der Waals heterostructure laminates. Semiconductor Science and Technology, 2018, 33, 084001.	2.0	8
33	Terahertz-frequency magnetoelectric effect in Ni-doped $\text{CaBaCo}_4\text{O}_7$. Physical Review B, 2017, 96, .	3.2	12
34	Engineering the Losses and Beam Divergence in Arrays of Patch Antenna Microcavities for Terahertz Sources. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1321-1330.	2.2	2
35	Applicability of Femtosecond Lasers in the Cross-section Sampling of Works of Art. MRS Advances, 2017, 2, 1801-1804.	0.9	0
36	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. Journal of Applied Physics, 2017, 122, .	2.5	33

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37	Commentary: Pursuing science across nationalities and disciplines. Physics Today, 2017, 70, 10-11.	0.3	0
38	Imaging the motion of electrons across semiconductor heterojunctions. Nature Nanotechnology, 2017, 12, 36-40.	31.5	124
39	Obtaining Cross-Sections of Paint Layers in Cultural Artifacts Using Femtosecond Pulsed Lasers. Materials, 2017, 10, 107.	2.9	11
40	Charge Transfer and Enhanced Absorption in MoS ₂ - Organic Heterojunctions Using Plasmonic Metasurfaces. , 2017, , .		0
41	Jahn-Teller-induced femtosecond electronic depolarization dynamics of the nitrogen-vacancy defect in diamond. Nature Communications, 2016, 7, 13510.	12.8	23
42	Patch antenna microcavity terahertz sources with enhanced emission. Applied Physics Letters, 2016, 109, .	3.3	5
43	Oxidation of Planar and Plasmonic Ag Surfaces by Exposure to O ₂ /Ar Plasma for Organic Optoelectronic Applications. MRS Advances, 2016, 1, 943-948.	0.9	3
44	Optoelectronic properties in the terahertz of femtosecond-laser-ablated GaAs. , 2016, , .		0
45	Ultrafast Charge Transfer and Enhanced Absorption in MoS ₂ - Organic van der Waals Heterojunctions Using Plasmonic Metasurfaces. ACS Nano, 2016, 10, 9899-9908.	14.6	71
46	Protecting the properties of monolayer MoS ₂ on silicon based substrates with an atomically thin buffer. Scientific Reports, 2016, 6, 20890.	3.3	64
47	Observing the interplay between surface and bulk optical nonlinearities in thin van der Waals crystals. Scientific Reports, 2016, 6, 22620.	3.3	42
48	Interfacing with Neural Activity via Femtosecond Laser Stimulation of Drug-Encapsulating Liposomal Nanostructures. ENeuro, 2016, 3, ENEURO.0107-16.2016.	1.9	10
49	Engineering Photophenomena in Large, 3D Structures Composed of Self-Assembled van der Waals Heterostructure Flakes. Advanced Optical Materials, 2015, 3, 1551-1556.	7.3	17
50	Chemical Vapor Deposition Synthesized Atomically Thin Molybdenum Disulfide with Optoelectronic-Grade Crystalline Quality. ACS Nano, 2015, 9, 8822-8832.	14.6	132
51	Ultrafast properties of femtosecond-laser-ablated GaAs and its application to terahertz optoelectronics. Optics Letters, 2015, 40, 3388.	3.3	19
52	Ultrafast Intrinsic Photoresponse and Direct Evidence of Sub-gap States in Liquid Phase Exfoliated MoS ₂ Thin Films. Scientific Reports, 2015, 5, 11272.	3.3	57
53	Optically induced magnetic moments in symmetric graphene quantum dots. Physical Review B, 2015, 91, .	3.2	3
54	20 THz broadband generation using semi-insulating GaAs interdigitated photoconductive antennas. Optics Express, 2014, 22, 26358.	3.4	58

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55	Mimicking subsecond neurotransmitter dynamics with femtosecond laser stimulated nanosystems. Scientific Reports, 2014, 4, 5398.	3.3	10
56	Intraband conductivity response in graphene observed using ultrafast infrared-pump visible-probe spectroscopy. Physical Review B, 2012, 86, .	3.2	35
57	Tracing Ultrafast Separation and Coalescence of Carrier Distributions in Graphene with Time-Resolved Photoemission. Journal of Physical Chemistry Letters, 2012, 3, 64-68.	4.6	42
58	Strong Electronic Correlation Effects in Coherent Multidimensional Nonlinear Optical Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 5634-5647.	2.6	8
59	Ultrafast nonlinear optical spectroscopy of a dual-band negative index metamaterial all-optical switching device. Optics Express, 2011, 19, 3973.	3.4	32
60	Ultrafast Pump-Probe Spectroscopy of a Dual-Band Negative-Index Metamaterial. , 2010, , .		0
61	Transient three-pulse four-wave mixing spectra of magnetoexcitons coupled with an incompressible quantum liquid. Physical Review B, 2010, 82, .	3.2	7
62	Subpicosecond Optical Switching with a Negative Index Metamaterial. Nano Letters, 2009, 9, 3565-3569.	9.1	115
63	Bianisotropic negative-index metamaterial embedded in a symmetric medium. Journal of the Optical Society of America B: Optical Physics, 2009, 26, B34.	2.1	11
64	Observation of an inter-Landau level quantum coherence in semiconductor quantum wells. Physical Review B, 2008, 78, .	3.2	9
65	Ultrafast nonlinear optical response of the quantum Hall system. , 2007, , .		0
66	Ultrafast Enhancement of Ferromagnetism via Photoexcited Holes in GaMnAs. Physical Review Letters, 2007, 98, 217401.	7.8	90
67	Ultrafast photoinduced ferromagnetism in GaMnAs. , 2007, , .		0
68	Correlation effects in the ultrafast dynamics of the Quantum Hall system close to $\nu = 1$. Physica Status Solidi (B): Basic Research, 2006, 243, 2397-2404.	1.5	3
69	Dynamics of the collective excitations of the quantum Hall system. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 206-209.	2.7	3
70	Nonlinear optical studies of the transient coherence in the Quantum Hall system. Solid State Communications, 2006, 140, 72-82.	1.9	7
71	Bose-Einstein condensation in a mm-scale Ioffe-Pritchard trap. Applied Physics B: Lasers and Optics, 2006, 82, 533-538.	2.2	10
72	Ultrafast Dynamics of Coherences in a Quantum Hall System. Physical Review Letters, 2006, 97, 057401.	7.8	16

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73	Coherent dynamics of the coupled light — Quantum Hall system. , 2006, , .		0
74	Ultrafast innter-Landau-level coherent dynamics of undoped quantum well magnetoexcitons. , 2006, , .		0
75	Parametric scattering in semiconductor microcavities probed by four-wave mixing. Chemical Physics, 2005, 318, 147-155.	1.9	0
76	Deterministic optical Fock-state generation. Physical Review A, 2003, 67, .	2.5	47
77	Lavrentiev's phenomenon for totally unconstrained variational problems in one dimension. Nonlinear Differential Equations and Applications, 2000, 7, 435-446.	0.8	2
78	Investigation of nanoscale energy transport with time-resolved photoemission electron microscopy. , 0, , 10-1-10-33.		3
79	Modulating Nanoscale Defect States in Halide Perovskite Films. , 0, , .		0
80	Nanoscale Heterogeneities Limit Optoelectronic Performance in Halide Perovskites. , 0, , .		0
81	Control of Nanoscale Surface Defects and the Relation to Local Structural Properties in Halide Perovskite Films. , 0, , .		0
82	Exploring Defects in Triple Cation Mixed Halide Perovskite Thin Films Using Time-Resolved Photoemission Electron Microscopy. , 0, , .		0
83	Understanding the role of nanoscale defect clusters in hybrid perovskite photovoltaics with time-resolved photoemission electron microscopy. , 0, , .		0
84	The varied nature and roles of nanoscale defects in solution processed triple cation mixed halide perovskite thin films. , 0, , .		0
85	Nanoscale Chemical Landscape Dominates Optoelectronic Response in Alloyed Halide Perovskites. , 0, , .		0
86	Harmonic generation in confinement. Nature Physics, 0, , .	16.7	1