Khadga Jung Karki

List of Publications by Year
in descending order

43 papers	1,284 citations	361045 20 h-index	344852 36 g-index
43 all docs	43 docs citations	43 times ranked	1802 citing authors

#	Article	IF	Citations
1	Spatial Heterogeneity of n-Phases Leads to Different Photophysical Properties in Quasi-Two-Dimensional Methylammonium Lead Bromide Perovskite. Journal of Physical Chemistry C, 2022, 126, 478-486.	1.5	4
2	Advances in nonlinear spectroscopy using phase modulated light fields: prospective applications in perturbative and non-perturbative regimes. Advances in Physics: X, 2022, 7, .	1.5	4
3	Nature of the different emissive states and strong excitonâ€“phonon couplings in quasi-two-dimensional perovskites derived from phase-modulated two-photon micro-photoluminescence spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 3983-3992.	1.3	7
4	Kinetics of near-infrared-to-visible upconversion in rubrene: An initial excitation of triplets. Physical Review B, 2021, 104, .	1.1	0
5	New Nonlinear Optical Crystal of Rhodamine 590 Acid Phthalate. ACS Omega, 2020, 5, 20863-20873.	1.6	4
6	Compressed Sensing for Reconstructing Coherent Multidimensional Spectra. Journal of Physical Chemistry A, 2020, 124, 1861-1866.	1.1	7
7	Light-Induced Defect Healing and Strong Many-Body Interactions in Formamidinium Lead Bromide Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2020, 11, 1239-1246.	2.1	18
8	Vibronic coherence contributes to photocurrent generation in organic semiconductor heterojunction diodes. Nature Communications, 2020, 11, 617.	5.8	28
9	Before FÃ¶rster. Initial excitation in photosynthetic light harvesting. Chemical Science, 2019, 10, 7923-7928.	3.7	38
10	Enhanced Radiative Recombination of Excitons and Free Charges Due to Local Deformations in the Band Structure of MAPbBr₃ Perovskite Crystals. Journal of Physical Chemistry C, 2019, 123, 13444-13450.	1.5	15
11	Two-photon excitation spectroscopy of 1,5â€“Diphenyl-1,3,5-hexatriene using phase modulation. Journal of Physics Communications, 2019, 3, 035008.	0.5	10
12	Differentiation of True Nonlinear and Incoherent Mixing of Linear Signals in Action-Detected 2D Spectroscopy. Journal of Physical Chemistry A, 2019, 123, 4119-4124.	1.1	16
13	Functional Nonlinear Spectroscopy using Phase Modulated Light Fields. , 2019, , .		1
14	Direct measurement of fast transients by using boot-strapped waveform averaging. Review of Scientific Instruments, 2018, 89, 035104.	0.6	4
15	Variation in the Photocurrent Response Due to Different Emissive States in Methylammonium Lead Bromide Perovskites. Journal of Physical Chemistry C, 2018, 122, 3818-3823.	1.5	11
16	Evidence of High-Order Nonlinearities in Supercontinuum White-Light Generation from a Gold Nanofilm. ACS Photonics, 2018, 5, 1927-1932.	3.2	20
17	Variations in the Composition of the Phases Lead to the Differences in the Optoelectronic Properties of MAPbBr3 Thin Films and Crystals. Journal of Physical Chemistry C, 2018, 122, 21817-21823.	1.5	15
18	Phonon Coupling with Excitons and Free Carriers in Formamidinium Lead Bromide Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2018, 9, 4245-4250.	2.1	56

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19	High Resolution Mapping of Two-Photon Excited Photocurrent in Perovskite Microplate Photodetector. Journal of Physical Chemistry Letters, 2018, 9, 5017-5022.	2.1	35
20	Increasing the density of modes in an optical frequency comb by cascaded four-wave mixing in a nonlinear optical fiber. Physical Review A, 2017, 96, .	1.0	12
21	Ion Migration Heals Trapping Centers in CH₃NH₃PbBr₃ Perovskite. ACS Energy Letters, 2017, 2, 2133-2139.	8.8	51
22	Two-dimensional action spectroscopy of excitonic systems: Explicit simulation using a phase-modulation technique. Physical Review A, 2017, 96, .	1.0	29
23	Different emissive states in the bulk and at the surface of methylammonium lead bromide perovskite revealed by two-photon micro-spectroscopy and lifetime measurements. APL Photonics, 2016, 1, .	3.0	39
24	Optimization schemes for efficient multiple exciton generation and extraction in colloidal quantum dots. Journal of Chemical Physics, 2016, 145, 064703.	1.2	11
25	Nature of relaxation processes revealed by the action signals of intensity-modulated light fields. Physical Review A, 2016, 94, .	1.0	19
26	Molecular Properties of Astaxanthin in Water/Ethanol Solutions from Computer Simulations. Journal of Physical Chemistry B, 2016, 120, 9322-9328.	1.2	7
27	Phase-synchronous detection of coherent and incoherent nonlinear signals. Journal of Optics (United Kingdom), 2016, 18, 015504.	1.0	35
28	Sandwiched confinement of quantum dots in graphene matrix for efficient electron transfer and photocurrent production. Scientific Reports, 2015, 5, 9860.	1.6	25
29	Ultrafast photoinduced dynamics in quantum dot-based systems for light harvesting. Nano Research, 2015, 8, 2125-2142.	5.8	26
30	Note: High precision measurements using high frequency gigahertz signals. Review of Scientific Instruments, 2014, 85, 126102.	0.6	11
31	Coherent two-dimensional photocurrent spectroscopy in a PbS quantum dot photocell. Nature Communications, 2014, 5, 5869.	5.8	141
32	Nonlinear spectroscopy in the near-field: time resolved spectroscopy and subwavelength resolution non-invasive imaging. Nanophotonics, 2014, 3, 61-73.	2.9	7
33	Ultra Long-Lived Radiative Trap States in CdSe Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 21682-21686.	1.5	62
34	Generalized lock-in amplifier for precision measurement of high frequency signals. Review of Scientific Instruments, 2013, 84, 115101.	0.6	26
35	Digital cavities and their potential applications. Journal of Instrumentation, 2013, 8, T05005-T05005.	0.5	17
36	Multiple exciton generation in nano-crystals revisited: Consistent calculation of the yield based on pump-probe spectroscopy. Scientific Reports, 2013, 3, 2287.	1.6	34

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37	Pump-probe scanning near field optical microscopy: Sub-wavelength resolution chemical imaging and ultrafast local dynamics. Applied Physics Letters, 2012, 100, 153103.	1.5	30
38	Structure and Dynamics of Dodecaborate Clusters in Water. Inorganic Chemistry, 2012, 51, 4894-4896.	1.9	47
39	Transient Grating Studies of Femtosecond Processes in Ultraâ€Thin Layers of PTCDA. ChemPhysChem, 2012, 13, 477-481.	1.0	1
40	Study of structural and dynamic properties of liquid phenyltrimethoxysilane. Physical Chemistry Chemical Physics, 2011, 13, 11864.	1.3	7
41	Molecular Dynamics Simulation Study of Chlorophyll a in Different Organic Solvents. Journal of Chemical Theory and Computation, 2011, 7, 1131-1140.	2.3	34
42	Molecular Distortions and Chemical Bonding of a Largeï€-Conjugated Molecule on a Metal Surface. Physical Review Letters, 2005, 94, 036106.	2.9	258
43	HauschildetÂal.Reply:. Physical Review Letters, 2005, 95, .	2.9	62