Nagakrishnakanth Katturi

List of Publications by Year
in descending order

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29	785	516710	610901
papers	citations	16 h-index	24 g-index

30	30	30	685
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbazole-based Ï€-conjugated 2,2â€²-Bipyridines, a new class of organic chromophores: Photophysical, ultrafast nonlinear optical and computational studies. Dyes and Pigments, 2021, 185, 108932.	3.7	17
2	Efficacy of Eu3+ on improving the nearâ€“infrared optical nonlinearities and optical limiting properties of antimony sodium borate glasses. Journal of Non-Crystalline Solids, 2021, 556, 120566.	3.1	18
3	Ultrafast Nonlinear Optical and Structureâ€“Property Relationship Studies of Pyridine-Based Anthracene Chalcones Using Z-Scan, Degenerate Four-Wave Mixing, and Computational Approaches. Journal of Physical Chemistry B, 2021, 125, 3883-3898.	2.6	16
4	Femtosecond transient absorption studies of two novel energetic tetrazole derivatives. Chemical Physics Impact, 2021, 2, 100016.	3.5	0
5	Influence of gold nanoparticles on the nonlinear optical and photoluminescence properties of Eu₂O₃ doped alkali borate glasses. Physical Chemistry Chemical Physics, 2020, 22, 2019-2032.	2.8	63
6	Ultrafast Coherent Anti-Stokes Raman spectroscopic studies of nitro/nitrogen rich aryl-tetrazole derivatives. Chemical Physics Letters, 2020, 756, 137843.	2.6	6
7	Metal-free carbazole scaffold dyes as potential nonlinear optical phores: molecular engineering. Journal of Materials Chemistry C, 2020, 8, 16188-16197.	5.5	14
8	Multistep Electron Injection Dynamics and Optical Nonlinearity Investigations of Ï€-Extended Thioalkyl-Substituted Tetrathiafulvalene Sensitizers. Journal of Physical Chemistry C, 2020, 124, 24039-24051.	3.1	21
9	Ultrafast photophysical and nonlinear optical properties of novel free base and axially substituted phosphorus (V) corroles. Journal of Molecular Liquids, 2020, 311, 113308.	4.9	23
10	Ultrafast nonlinear optical properties and excited-state dynamics of Soret-band excited D-Ï€-D porphyrins. Optical Materials, 2020, 107, 110041.	3.6	27
11	Ultrafast third-order nonlinear optical properties of a novel 4-methoxy-4â€™-nitro chalcone by z-scan and degenerate four-wave mixing techniques. , 2020, , .		0
12	Plasmon Induced Ultrafast Excited State Interfacial Electron Dynamics of Tetrathiafulvalene Sensitizers. , 2020, , .		0
13	Femtosecond Transient Absorption Spectroscopy Studies of Ethynylthiophene Functionalized Porphyrin. , 2020, , .		0
14	Ultrafast excited state dynamics and femtosecond nonlinear optical properties of laser fabricated Au and Ag50Au50 nanoparticles. Optical Materials, 2019, 95, 109239.	3.6	19
15	Influence of Eu3+ ions on nonlinear optical properties of alklai borate glasses at near-infrared wavelengths. AIP Conference Proceedings, 2019, , .	0.4	1
16	Femtosecond nonlinear optical properties of heavy metal borate glasses studied using Zâ€“scan technique. AIP Conference Proceedings, 2019, , .	0.4	2
17	Deciphering the Ultrafast Nonlinear Optical Properties and Dynamics of Pristine and Ni-Doped CsPbBr₃ Colloidal Two-Dimensional Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 5577-5584.	4.6	50
18	Broadband ultrafast nonlinear optical studies revealing exciting multi-photon absorption coefficients in phase pure zero-dimensional Cs₄PbBr₆ perovskite films. Nanoscale, 2019, 11, 945-954.	5.6	65

#	Article	IF	Citations
19	Linear and femtosecond nonlinear optical properties of soluble pyrrolo[1,2-a] quinoxalines. Chemical Physics Letters, 2019, 730, 638-642.	2.6	13
20	Structural and Femtosecond Third-Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony. Journal of Physical Chemistry C, 2019, 123, 5591-5602.	3.1	68
21	Linear and nonlinear optical properties of gold nanoparticles doped borate glasses. Journal of Non-Crystalline Solids, 2018, 482, 160-169.	3.1	105
22	Nonlinear optical studies of sodium borate glasses embedded with gold nanoparticles. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	48
23	Femtosecond nonlinear optical properties of laser ablated gold nanoparticles in water. AIP Conference Proceedings, 2018, , .	0.4	4
24	Broadband femtosecond nonlinear optical properties of CsPbBr_3 perovskite nanocrystals. Optics Letters, 2018, 43, 603.	3.3	64
25	Optical, structural and Near-IR NLO properties of gold nanoparticles doped sodium zinc borate glasses. Optical Materials, 2018, 83, 34-42.	3.6	77
26	Crystal growth and characterization of second- and third-order nonlinear optical chalcone derivative: (2E)-3-(5-bromo-2-thienyl)-1-(4-nitrophenyl)prop-2-en-1-one. Journal of Applied Crystallography, 2018, 51, 1035-1042.	4.5	28
27	Non-critically phase-matched second harmonic generation and third order nonlinearity in organic crystal glucuronic acid Î³-lactone. Journal of Applied Physics, 2017, 122, 223110.	2.5	9
28	Selective growth of ZnO thin film nanostructures: Structure, morphology and tunable optical properties. AIP Conference Proceedings, 2016, , .	0.4	0
29	Cyclometalated Iridium(III) Complexes Containing 4,4â€²-Ï€-Conjugated 2,2â€²-Bipyridine Derivatives as the Ancillary Ligands: Synthesis, Photophysics, and Computational Studies. Inorganic Chemistry, 2016, 55, 3530-3540.	4.0	27