

Nagakrishnakanth Katturi

List of Publications by Year in descending order

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29
papers

785
citations

516710

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30
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear and nonlinear optical properties of gold nanoparticles doped borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 482, 160-169.	3.1	105
2	Optical, structural and Near-IR NLO properties of gold nanoparticles doped sodium zinc borate glasses. <i>Optical Materials</i> , 2018, 83, 34-42.	3.6	77
3	Structural and Femtosecond Third-Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5591-5602.	3.1	68
4	Broadband ultrafast nonlinear optical studies revealing exciting multi-photon absorption coefficients in phase pure zero-dimensional Cs ₄ PbBr ₆ perovskite films. <i>Nanoscale</i> , 2019, 11, 945-954.	5.6	65
5	Broadband femtosecond nonlinear optical properties of CsPbBr ₃ perovskite nanocrystals. <i>Optics Letters</i> , 2018, 43, 603.	3.3	64
6	Influence of gold nanoparticles on the nonlinear optical and photoluminescence properties of Eu ₂ O ₃ doped alkali borate glasses. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2019-2032.	2.8	63
7	Deciphering the Ultrafast Nonlinear Optical Properties and Dynamics of Pristine and Ni-Doped CsPbBr ₃ Colloidal Two-Dimensional Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5577-5584.	4.6	50
8	Nonlinear optical studies of sodium borate glasses embedded with gold nanoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	48
9	Crystal growth and characterization of second- and third-order nonlinear optical chalcone derivative: (2 <i>E</i>)-3-(5-bromo-2-thienyl)-1-(4-nitrophenyl)prop-2-en-1-one. <i>Journal of Applied Crystallography</i> , 2018, 51, 1035-1042.	4.5	28
10	Cyclometalated Iridium(III) Complexes Containing 4,4'-Conjugated 2,2'-Bipyridine Derivatives as the Ancillary Ligands: Synthesis, Photophysics, and Computational Studies. <i>Inorganic Chemistry</i> , 2016, 55, 3530-3540.	4.0	27
11	Ultrafast nonlinear optical properties and excited-state dynamics of Soret-band excited D-D porphyrins. <i>Optical Materials</i> , 2020, 107, 110041.	3.6	27
12	Ultrafast photophysical and nonlinear optical properties of novel free base and axially substituted phosphorus (V) corroles. <i>Journal of Molecular Liquids</i> , 2020, 311, 113308.	4.9	23
13	Multistep Electron Injection Dynamics and Optical Nonlinearity Investigations of π -Extended Thioalkyl-Substituted Tetrathiafulvalene Sensitizers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24039-24051.	3.1	21
14	Ultrafast excited state dynamics and femtosecond nonlinear optical properties of laser fabricated Au and Ag ₅₀ Au ₅₀ nanoparticles. <i>Optical Materials</i> , 2019, 95, 109239.	3.6	19
15	Efficacy of Eu ³⁺ on improving the near-infrared optical nonlinearities and optical limiting properties of antimony sodium borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 556, 120566.	3.1	18
16	Carbazole-based π -conjugated 2,2'-Bipyridines, a new class of organic chromophores: Photophysical, ultrafast nonlinear optical and computational studies. <i>Dyes and Pigments</i> , 2021, 185, 108932.	3.7	17
17	Ultrafast Nonlinear Optical and Structure-Property Relationship Studies of Pyridine-Based Anthracene Chalcones Using Z-Scan, Degenerate Four-Wave Mixing, and Computational Approaches. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3883-3898.	2.6	16
18	Metal-free carbazole scaffold dyes as potential nonlinear optical phores: molecular engineering. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16188-16197.	5.5	14

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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	Non-critically phase-matched second harmonic generation and third order nonlinearity in organic crystal glucuronic acid β -lactone. Journal of Applied Physics, 2017, 122, 223110.	2.5	9
21	Ultrafast Coherent Anti-Stokes Raman spectroscopic studies of nitro/nitrogen rich aryl-tetrazole derivatives. Chemical Physics Letters, 2020, 756, 137843.	2.6	6
22	Femtosecond nonlinear optical properties of laser ablated gold nanoparticles in water. AIP Conference Proceedings, 2018, , .	0.4	4
23	Femtosecond nonlinear optical properties of heavy metal borate glasses studied using Z-scan technique. AIP Conference Proceedings, 2019, , .	0.4	2
24	Influence of Eu ³⁺ ions on nonlinear optical properties of alkali borate glasses at near-infrared wavelengths. AIP Conference Proceedings, 2019, , .	0.4	1
25	Selective growth of ZnO thin film nanostructures: Structure, morphology and tunable optical properties. AIP Conference Proceedings, 2016, , .	0.4	0
26	Femtosecond transient absorption studies of two novel energetic tetrazole derivatives. Chemical Physics Impact, 2021, 2, 100016.	3.5	0
27	Ultrafast third-order nonlinear optical properties of a novel 4-methoxy-4'-nitro chalcone by z-scan and degenerate four-wave mixing techniques. , 2020, , .		0
28	Plasmon Induced Ultrafast Excited State Interfacial Electron Dynamics of Tetrathiafulvalene Sensitizers. , 2020, , .		0
29	Femtosecond Transient Absorption Spectroscopy Studies of Ethynylthiophene Functionalized Porphyrin. , 2020, , .		0