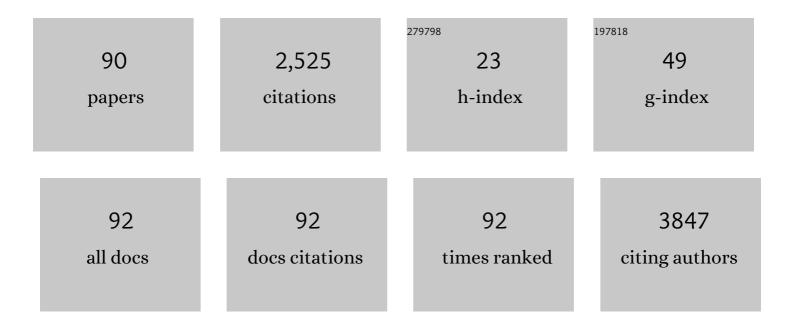
## Sai Santosh Kumar Raavi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Plasmonic Dye-Sensitized Solar Cells Using Coreâ^'Shell Metalâ^'Insulator Nanoparticles. Nano Letters, 2011, 11, 438-445.	9.1	550
2	Ultrafast Dynamics of Exciton Fission in Polycrystalline Pentacene. Journal of the American Chemical Society, 2011, 133, 11830-11833.	13.7	394
3	Femtosecond and nanosecond nonlinear optical properties of alkyl phthalocyanines studied using Z-scan technique. Chemical Physics Letters, 2007, 447, 274-278.	2.6	167
4	Second harmonic generation and crystal growth of new chalcone derivatives. Journal of Crystal Growth, 2007, 303, 520-524.	1.5	97
5	Nonlinear absorption and scattering properties of cadmium sulphide nanocrystals with its application as a potential optical limiter. Journal of Applied Physics, 2006, 100, 074309.	2.5	73
6	Synthesis, Optical, Electrochemical, DFT Studies, NLO Properties, and Ultrafast Excited State Dynamics of Carbazole-Induced Phthalocyanine Derivatives. Journal of Physical Chemistry C, 2019, 123, 11118-11133.	3.1	70
7	Influence of Ion Induced Local Coulomb Field and Polarity on Charge Generation and Efficiency in Poly(3â€Hexylthiophene)â€Based Solidâ€&tate Dyeâ€&ensitized Solar Cells. Advanced Functional Materials, 2011, 21, 2571-2579.	, 14.9	68
8	Boosting Infrared Light Harvesting by Molecular Functionalization of Metal Oxide/Polymer Interfaces in Efficient Hybrid Solar Cells. Advanced Functional Materials, 2012, 22, 2160-2166.	14.9	49
9	Ultrafast nonlinear optical properties of alkyl phthalocyanines investigated using degenerate four-wave mixing technique. Optical Materials, 2009, 31, 1042-1047.	3.6	45
10	Control over relaxor, piezo-photocatalytic and energy storage properties in Na0.5Bi0.5TiO3 via processing methodologies. Journal of Alloys and Compounds, 2019, 798, 540-552.	5.5	43
11	The effect of selective interactions at the interface of polymer–oxide hybrid solar cells. Energy and Environmental Science, 2012, 5, 9068.	30.8	42
12	The metal halide structure and the extent of distortion control the photo-physical properties of luminescent zero dimensional organic-antimony( <scp>iii</scp> ) halide hybrids. Journal of Materials Chemistry C, 2021, 9, 348-358.	5.5	42
13	Enhanced Electrocaloric Effect and Energy Storage Density of Ndâ€Substituted 0.92NBTâ€0.08BT Lead Free Ceramic. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700915.	1.8	40
14	Ultrafast Energy Transfer in Ultrathin Organic Donor/Acceptor Blend. Scientific Reports, 2013, 3, 2073.	3.3	39
15	Linear and Nonlinear Optical Properties of Mesoionic Oxyallyl Derivatives: Enhanced Non-Resonant Third Order Optical Nonlinearity in Croconate Dyes. Journal of Physical Chemistry C, 2008, 112, 13272-13280.	3.1	35
16	Multifunctional Nd <sup>3+</sup> substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> as lead-free ceramics with enhanced luminescence, ferroelectric and energy harvesting properties. RSC Advances, 2018, 8, 15282-15289.	3.6	35
17	Nonlinear Optical Absorption and Switching Properties of Gold Nanoparticle Doped SiO <sub>2</sub> –TiO <sub>2</sub> Sol–Gel Films. Journal of Nanoscience and Nanotechnology, 2006, 6, 1990-1994.	0.9	34
18	Fabrication and optoelectronic characterisation of ZnO photonic structures. Materials Letters, 2008, 62, 1183-1186.	2.6	31

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19	Comparative photophysical and femtosecond third-order nonlinear optical properties of novel imidazole substituted metal phthalocyanines. Dyes and Pigments, 2021, 184, 108791.	3.7	31
20	Optoelectronic, femtosecond nonlinear optical properties and excited state dynamics of a triphenyl imidazole induced phthalocyanine derivative. RSC Advances, 2019, 9, 36726-36741.	3.6	29
21	Broadband supercontinuum generation in a single potassium di-hydrogen phosphate (KDP) crystal achieved in tandem with sum frequency generation. Applied Physics B: Lasers and Optics, 2007, 86, 615-621.	2.2	27
22	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. Journal of Physical Chemistry C, 2015, 119, 28691-28700.	3.1	27
23	Ultrafast nonlinear optical properties and excited-state dynamics of Soret-band excited D-Ï€-D porphyrins. Optical Materials, 2020, 107, 110041.	3.6	27
24	Primary photo-events in a metastable photomerocyanine of spirooxazines. Optical Materials Express, 2011, 1, 293.	3.0	25
25	Lead-free zero dimensional tellurium( <scp>iv</scp> ) chloride-organic hybrid with strong room temperature emission as a luminescent material. Journal of Materials Chemistry C, 2021, 9, 4351-4358.	5.5	25
26	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. Journal Physics D: Applied Physics, 2009, 42, 205106.	2.8	24
27	Vacancies induced enhancement in neodymium doped titania photoanodes based sensitized solar cells and photo-electrochemical cells. Solar Energy Materials and Solar Cells, 2021, 220, 110843.	6.2	24
28	Correlation between structural, ferroelectric and luminescence properties through compositional dependence of Nd3+ ion in lead free Na0.5Bi0.5TiO3. Journal of Alloys and Compounds, 2018, 732, 233-239.	5.5	23
29	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
30	Low cost â€~green' dye sensitized solar cells based on New Fuchsin dye with aqueous electrolyte and platinum-free counter electrodes. Solar Energy, 2019, 188, 913-923.	6.1	21
31	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
32	Ultrafast excited state dynamics and femtosecond nonlinear optical properties of laser fabricated Au and Ag50Au50 nanoparticles. Optical Materials, 2019, 95, 109239.	3.6	19
33	Effect of polymer morphology on P3HT-based solid-state dye sensitized solar cells: an ultrafast spectroscopic investigation. Optics Express, 2013, 21, A469.	3.4	17
34	Nonlinear optical properties of alkyl phthalocyanines in the femtosecond, nanosecond, and cw excitation regimes. Proceedings of SPIE, 2008, , .	0.8	16
35	Optical studies of two dimensional gratings in fused silica, GE 124, and Foturanâ,,¢ glasses fabricated using femtosecond laser pulses. Optics Communications, 2009, 282, 4537-4542.	2.1	16
36	A photoanode with plasmonic nanoparticles of earth abundant bismuth for photoelectrochemical reactions. Nanoscale Advances, 2020, 2, 5591-5599.	4.6	15

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37	Panchromatic "Dye-Doped―Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. Journal of Physical Chemistry Letters, 2013, 4, 442-447.	4.6	14
38	Triple bulk heterojunctions as means for recovering the microstructure of photoactive layers in organic solar cell devices. Solar Energy Materials and Solar Cells, 2014, 120, 37-47.	6.2	14
39	Controlled Modulation of the Structure and Luminescence Properties of Zero-Dimensional Manganese Halide Hybrids through Structure-Directing Metal-Ion (Cd <sup>2+</sup> and) Tj ETQq1 1 0.7843	14 rg&.D/Ov	erlaæk 10 Tf
40	Depolarization properties of the femtosecond supercontinuum generated in condensed media. Physical Review A, 2008, 78, .	2.5	13
41	Impact of Molecular Charge-Transfer States on Photocurrent Generation in Solid State Dye-Sensitized Solar Cells Employing Low-Band-Gap Dyes. Journal of Physical Chemistry C, 2014, 118, 16825-16830.	3.1	13
42	Linear and femtosecond nonlinear optical properties of soluble pyrrolo[1,2-a] quinoxalines. Chemical Physics Letters, 2019, 730, 638-642.	2.6	13
43	Er3+ doped titania photoanode for enhanced performance of photo-electrochemical water splitting devices. Materials Letters, 2021, 302, 130297.	2.6	13
44	Femtosecond excited-state dynamics and ultrafast nonlinear optical investigations of ethynylthiophene functionalized porphyrin. Optical Materials, 2022, 127, 112232.	3.6	13
45	Ultrafast intramolecular charge transfer dynamics and nonlinear optical properties of phenothiazine-based push–pull zinc porphyrin. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 433, 114141.	3.9	12
46	A simple D–π–A system of phenanthroimidazole-π-fluorenone for highly efficient non-doped bipolar AIE luminogens: synthesis, and molecular optical, thermal and electrochemical properties. New Journal of Chemistry, 2020, 44, 1785-1794.	2.8	11
47	Ligand Structure Directed Dimensionality Reduction (2D →1D) in Lead Bromide Perovskite. Journal of Physical Chemistry C, 2020, 124, 1888-1897.	3.1	11
48	Enhanced electrical and photocatalytic activities in Na0.5Bi0.5TiO3 through structural modulation by using anatase and rutile phases of TiO2. Journal of Materiomics, 2022, 8, 18-29.	5.7	11
49	Control of the polarization properties of the supercontinuum generation in a noncentrosymmetric crystal. Optics Letters, 2008, 33, 1198.	3.3	10
50	Small-Size Effects on Electron Transfer in P3HT/InP Quantum Dots. Journal of Physical Chemistry C, 2015, 119, 26783-26792.	3.1	10
51	Enhancement in electrical and optical properties by substitution of lanthanides (Nd3+ and Eu3+) in lead free Na0.5Bi0.5 TiO3 ceramics. Ferroelectrics, 2017, 518, 23-30.	0.6	9
52	Ultrafast Excited State Relaxation Dynamics of New Fuchsine―a Triphenylmethane Derivative Dye. ChemPhysChem, 2021, 22, 2562-2572.	2.1	9
53	Synergistic electronic coupling/cross-talk between the isolated metal halide units of zero dimensional heterometallic (Sb, Mn) halide hybrid with enhanced emission. Journal of Materials Chemistry C, 2021, 10, 360-370.	5.5	8
54	Nonlinear optical techniques for characterization of organic electronic and photonic devices. European Physical Journal: Special Topics, 2022, 231, 695-711.	2.6	8

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55	Quantum Dot Donor–Polymer Acceptor Architecture for a FRET-Enabled Solar Cell. ACS Applied Materials & Interfaces, 2019, 11, 18395-18403.	8.0	7
56	Femtosecond Third-Order Non-Linear Optical Properties of Unconstrained Green Fluorescence Protein Chromophores. Frontiers in Physics, 0, 10, .	2.1	7
57	Structural, impedance, and photoluminescence properties of Ho3+ substituted Na0·5Bi0·5TiO3. Physica B: Condensed Matter, 2022, 639, 413926.	2.7	6
58	Photoactive Molecular Junctions Based on Self-Assembled Monolayers of Indoline Dyes. ACS Applied Materials & Interfaces, 2014, 6, 19774-19782.	8.0	5
59	Luminescent zinc( <scp>ii</scp> ) selone macrocyclic ring. RSC Advances, 2019, 9, 14841-14848.	3.6	5
60	Improved electrical and photoluminescence properties in Nd substitution of 0.94(Na0.5Bi0.5TiO3)-0.06BaTiO3 lead free multi-functional ceramics. Advanced Materials Letters, 2018, 9, 656-659.	0.6	4
61	Micro-Raman mapping of micro-gratings in Baccarat glass directly written using femtosecond laser. Proceedings of SPIE, 2008, , .	0.8	3
62	The effect on electrical and luminescent properties in nanocrystalline Na0.5Bi0.5â^'xNdxTiO3. Materials Research Express, 2017, 4, 095019.	1.6	3
63	Annealing induced control of trap-assisted recombination in vacuum-deposited small-molecule solar cells. Materials Letters, 2021, 300, 130159.	2.6	3
64	Samarium-doped TiO2 photoanodes for the molecular devices for solar energy conversion. , 2021, , .		2
65	Ultrafast electron injection kinetics and effect of plasmonic silver nanoparticle at organic dye-TiO2Âinterface. Asian Journal of Physics, 2021, 30, 933.	0.2	2
66	Inscription and characterization of micro-structures in silicate, Foturan and tellurite glasses by femtosecond laser direct writing. Proceedings of SPIE, 2008, , .	0.8	1
67	Spectroscopic techniques to probe the charge generation and recombination in solid-state dye sensitized solar cells. , 2011, , .		1
68	Optimization of thermally evaporated small molecule ternary organic solar cells. , 2021, , .		1
69	Enhanced Broadband Emission in Novel Phenanthroimidazole Derivative Molecules via Excited State Intramolecular Proton Transfer. , 2020, , .		1
70	Enhanced broadband emission of co-doped (Nd-Er)TiO2. , 2021, , .		1
71	Four wave mixing at air-dielectric interfaces with a femtosecond laser excitation. Optics Express, 2008, 16, 18034.	3.4	0
72	The structural evolution of photochromic reaction in Spirooxazine traced with sub-40fs transient absorption spectroscopy. , 2010, , .		0

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73	Semiconducting organic polymers as hole-transport layer in solid-state dye sensitized solar cells: comprehensive insights from femtosecond transient spectroscopy and device optimization. , 2012, , .		0
74	Transient absorption spectroscopic techniques for organic photovoltaics: tracking the photogenerated charges. , 2012, , .		0
75	Femtosecond to nanosecond excited states dynamics of novel Corroles. , 2014, , .		Ο
76	Focus issue introduction: Renewable energy and the environment 2013. Optics Express, 2014, 22, A561.	3.4	0
77	A lead free 0.96(Na0.5Bi0.49Nd0.01TiO3) -0.04BaTiO3 piezoceramic for possible optoelectronic device applications. AIP Conference Proceedings, 2018, , .	0.4	0
78	Improved ferroelectric and photoluminescence properties in Pr3+ substituted Na0.5Bi0.5TiO3 synthesized using hydrothermal route. AIP Conference Proceedings, 2018, , .	0.4	0
79	Particle size dependent properties of Na0.5Bi0.5TiO3 synthesized using hydrothermal technique. AIP Conference Proceedings, 2019, , .	0.4	0
80	Femtosecond transient absorption studies of two novel energetic tetrazole derivatives. Chemical Physics Impact, 2021, 2, 100016.	3.5	0
81	Improved performances in annealed P3HT-based dye sensitized solar cells (DSSC): a detailed morphological and spectroscopic investigation. , 2011, , .		Ο
82	On the role of semiconducting polymer as hole-transport layer in solid-state dye sensitized solar cells. , 2012, , .		0
83	Ultrafast charge photogeneration in low band-gap semiconducting polymer based solid-state dye sensitized solar cell (sDSC). , 2014, , .		0
84	Femtosecond Transient Absorption and Nonlinear Optical Studies of a Novel Zinc Phthalocyanine. , 2019, , .		0
85	Ultrafast Photophysical Investigations of water-soluble triphenylmethane derivative (New Fuchsin) molecule. , 2020, , .		Ο
86	Plasmon Induced Ultrafast Excited State Interfacial Electron Dynamics of Tetrathiafulvalene Sensitizers. , 2020, , .		0
87	Femtosecond Transient Absorption Spectroscopy Studies of Ethynylthiophene Functionalized Porphyrin. , 2020, , .		Ο
88	Effect of electrical poling on the structural, dielectric and photoluminescence properties of small concentration of Ho+3 substituted NBT. Journal of Physics: Conference Series, 2021, 2070, 012016.	0.4	0
89	Femtosecond nonlinear optical properties of -conjugated diketopyrrolopyrrole substituted porphyrin molecules. , 2021, , .		0
90	Femtosecond Excited State Dynamics of Phenanthroimidazole Derivative Molecules Through Excited State Intramolecular Proton Transfer. , 2021, , .		0