

# S Venugopal Rao

## List of Publications by Year in descending order

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332  
papers

8,590  
citations

41344

49  
h-index

79698

73  
g-index

338  
all docs

338  
docs citations

338  
times ranked

5974  
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant femtosecond nonlinear optical response in bi-metallic GO nanocomposites for photonic applications. <i>Applied Surface Science</i> , 2022, 578, 151966.	6.1	16
2	Third-order optical nonlinearities and high-order harmonics generation in Ni-doped CsPbBr <sub>3</sub> nanocrystals using single- and two-color chirped pulses. <i>Journal of Materials Science</i> , 2022, 57, 3468-3485.	3.7	14
3	Tunable femtosecond nonlinear absorption and optical limiting thresholds of La <sub>2</sub> O <sub>3</sub> •B <sub>2</sub> O <sub>3</sub> glasses by controlling the borate structural units. <i>Scripta Materialia</i> , 2022, 211, 114530.	5.2	24
4	Multi-functional gallium arsenide nanoparticles and nanostructures fabricated using picosecond laser ablation. <i>Applied Surface Science</i> , 2022, 589, 152802.	6.1	20
5	Machine learning for rapid quantification of trace analyte molecules using SERS and flexible plasmonic paper substrates. <i>Analytical Methods</i> , 2022, 14, 1788-1796.	2.7	18
6	Investigating the influence of ITO thin film thickness on the optical Kerr nonlinearity using ultrashort laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 1388.	2.1	11
7	Silicon Nanostructures for Molecular Sensing: A Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 4550-4582.	5.0	20
8	Femtosecond excited-state dynamics and ultrafast nonlinear optical investigations of ethynylthiophene functionalized porphyrin. <i>Optical Materials</i> , 2022, 127, 112232.	3.6	13
9	Recent trends in laser-based standoff detection of hazardous molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 153, 116645.	11.4	13
10	Third-order nonlinear optical properties of Sm <sub>2</sub> O <sub>3</sub> activated cadmium alkali borate glasses. <i>Optical Materials</i> , 2022, 127, 112313.	3.6	5
11	Hybrid Surface-Enhanced Raman Scattering Substrates for the Trace Detection of Ammonium Nitrate, Thiram, and Nile Blue. <i>ACS Omega</i> , 2022, 7, 15969-15981.	3.5	14
12	Picosecond Laser-Ablated Nanoparticles Loaded Filter Paper for SERS-Based Trace Detection of Thiram, 1,3,5-Trinitroperhydro-1,3,5-triazine (RDX), and Nile Blue. <i>Nanomaterials</i> , 2022, 12, 2150.	4.1	8
13	Picosecond Bessel Beam Fabricated Pure, Gold-Coated Silver Nanostructures for Trace-Level Sensing of Multiple Explosives and Hazardous Molecules. <i>Materials</i> , 2022, 15, 4155.	2.9	19
14	Enhanced near-infrared femtosecond nonlinear optical properties in zinc borate glasses activated with Er <sub>2</sub> O <sub>3</sub> . <i>Optical Materials</i> , 2022, 131, 112679.	3.6	7
15	Surface enhanced Raman studies of heat-treated silver nanowire films. <i>Materials Today: Proceedings</i> , 2021, 39, 1356-1361.	1.8	1
16	Comparative photophysical and femtosecond third-order nonlinear optical properties of novel imidazole substituted metal phthalocyanines. <i>Dyes and Pigments</i> , 2021, 184, 108791.	3.7	31
17	Ultra-sensitive reusable SERS sensor for multiple hazardous materials detection on single platform. <i>Journal of Hazardous Materials</i> , 2021, 407, 124353.	12.4	41
18	Carbazole-based $\pi$ -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

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19	Nanosecond pulsed laser ablation of Al-Cu-Fe quasicrystalline material: Effects of solvent and fluence. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157871.	5.5	16
20	Strong two-photon absorption and ultrafast dynamics of <i>meso</i> -functionalized $\alpha$ -push-pull <i>trans</i> - $\text{A}_{2\text{BC}}$ porphyrins. <i>Dalton Transactions</i> , 2021, 50, 6256-6272.	3.3	18
21	Time-Resolved Femtosecond Coherent Anti-Stokes Raman Spectroscopic Studies of Picric Acid and Ammonium Nitrate. <i>Springer Proceedings in Physics</i> , 2021, , 181-184.	0.2	0
22	Third-Order Nonlinear Optical Studies of Ti and Hybrid Ti-Au Nanoparticles Generated by Laser Ablation in Liquids. <i>Springer Proceedings in Physics</i> , 2021, , 491-494.	0.2	2
23	Efficacy of $\text{Eu}^{3+}$ 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
24	Large Area Few-Layer Hexagonal Boron Nitride as a Raman Enhancement Material. <i>Nanomaterials</i> , 2021, 11, 622.	4.1	17
25	ZnO nanowire arrays decorated with titanium nitride nanoparticles as surface-enhanced Raman scattering substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	5
26	Gold nanoparticle nanofibres as SERS substrate for detection of methylene blue and a chemical warfare simulant (methyl salicylate). <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	14
27	Ultrafast Nonlinear Optical and Structure-Property Relationship Studies of Pyridine-Based Anthracene Chalcones Using <i>Z</i> -Scan, Degenerate Four-Wave Mixing, and Computational Approaches. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3883-3898.	2.6	16
28	Femtosecond transient absorption studies of two novel energetic tetrazole derivatives. <i>Chemical Physics Impact</i> , 2021, 2, 100016.	3.5	0
29	Enhanced non-linear optical properties of $\text{Eu}^{3+}$ activated glasses by embedding silver nanoparticles. <i>Ceramics International</i> , 2021, 47, 16801-16808.	4.8	27
30	Influence of gamma irradiation on photoluminescence and nonlinear optical properties of $\text{Eu}^{3+}$ activated heavy metal borate glasses. <i>Optical Materials</i> , 2021, 116, 111102.	3.6	17
31	Precursor Based Tuning of the Nonlinear Optical Properties of Au-Ag Bimetallic Nanoparticles Doped in Oxy-fluoroborate Glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 561, 120766.	3.1	12
32	High Harmonic Generation from Laser-Induced Plasmas of Ni-Doped $\text{CsPbBr}_3$ Nanocrystals: Implications for Extreme Ultraviolet Light Sources. <i>ACS Applied Nano Materials</i> , 2021, 4, 8292-8301.	5.0	21
33	Simultaneous quantification of Au and Ag composition from Au-Ag bi-metallic LIBS spectra combined with shallow neural network model for multi-output regression. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	5
34	Improving the signal-to-noise ratio of atomic transitions in LIBS using two-dimensional correlation analysis. <i>OSA Continuum</i> , 2021, 4, 2423.	1.8	6
35	Photoluminescence and nonlinear optical investigations on $\text{Eu}_2\text{O}_3$ doped sodium bismuth borate glasses for solid state lighting and near-infrared optical limiting applications. <i>Infrared Physics and Technology</i> , 2021, 116, 103784.	2.9	12
36	Green machining using graphene-based self-lubricating cutting tool – a preliminary investigation. <i>World Journal of Engineering</i> , 2021, ahead-of-print, .	1.6	0

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37	Controlled wetting properties of proton beam irradiated silicon nanowires. <i>Chemical Physics</i> , 2021, 548, 111242.	1.9	3
38	Optical, Electrochemical, Third-Order Nonlinear Optical Investigations of 3,4,5-Trimethoxy Phenyl Substituted Non-Aqueous Phthalocyanines. <i>Frontiers in Chemistry</i> , 2021, 9, 713939.	3.6	10
39	Trace level detection of explosives and pesticides using robust, low-cost, free-standing silver nanoparticles decorated porous silicon. <i>Optics Express</i> , 2021, 29, 30045.	3.4	17
40	Ultrafast Excited State Relaxation Dynamics of New Fuchsine- $\alpha$ Triphenylmethane Derivative Dye. <i>ChemPhysChem</i> , 2021, 22, 2562-2572.	2.1	9
41	Gold nanostars on porous silicon for sensing picric acid, malachite green using SERS. , 2021, , .		1
42	TiO <sub>2</sub> /Carbon allotrope nanohybrids for supercapacitor application with theoretical insights from density functional theory. <i>Applied Surface Science</i> , 2021, 563, 150259.	6.1	14
43	Plasmon-enhanced ultrafast and tunable thermo-optic nonlinear optical properties of femtosecond laser ablated TiO <sub>2</sub> and Silver-doped TiO <sub>2</sub> nanoparticles. <i>Applied Surface Science</i> , 2021, 569, 151070.	6.1	33
44	Gold-coated silicon nanoripples achieved via picosecond laser ablation for surface enhanced Raman scattering studies. <i>Results in Optics</i> , 2021, 5, 100153.	2.0	4
45	Ultrafast laser ablation of silver targets in miscible and immiscible liquid mixtures. <i>Materials Today: Proceedings</i> , 2021, 39, 1327-1331.	1.8	1
46	Effects of Initial Grain Size and Laser Parameters on HfO <sub>2</sub> Nanoparticles Prepared Using Femtosecond Laser Ablation in Liquids. <i>Journal of Electronic Materials</i> , 2021, 50, 1742-1751.	2.2	2
47	Flexible SERS substrates for hazardous materials detection: recent advances. <i>Opto-Electronic Advances</i> , 2021, 4, 210048-210048.	13.3	134
48	Ultrafast nonlinear optical properties of orthorhombic YbFeO <sub>3</sub> thin film. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 3482.	2.1	3
49	Near-infrared nonlinear optical characteristics of silver nanoparticles embedded borate glasses activated with Sm <sup>3+</sup> ions: Effect of heat treatment. <i>Infrared Physics and Technology</i> , 2021, 119, 103959.	2.9	10
50	Improved near-infrared nonlinear optical properties of Sm <sup>3+</sup> containing borate glasses: Effect of silver nanoparticles concentration. <i>Optical Materials</i> , 2021, 122, 111804.	3.6	10
51	Femtosecond nonlinear optical properties of -conjugated diketopyrrolopyrrole substituted porphyrin molecules. , 2021, , .		0
52	A study on structural, compositional, microhardness and dielectric properties of LiInS <sub>2</sub> crystal. <i>Materials Research Innovations</i> , 2020, 24, 8-17.	2.3	2
53	Influence of gold nanoparticles on the nonlinear optical and photoluminescence properties of Eu <sub>2</sub> O <sub>3</sub> doped alkali borate glasses. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2019-2032.	2.8	63
54	Instantaneous trace detection of nitro-explosives and mixtures with nanotextured silicon decorated with Ag-Au alloy nanoparticles using the SERS technique. <i>Analytica Chimica Acta</i> , 2020, 1101, 157-168.	5.4	58

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55	Ultrafast Coherent Anti-Stokes Raman spectroscopic studies of nitro/nitrogen rich aryl-tetrazole derivatives. <i>Chemical Physics Letters</i> , 2020, 756, 137843.	2.6	6
56	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
57	Fabrication and characterization of GaAs nanoparticles achieved using femtosecond laser ablation. <i>Materials Today: Proceedings</i> , 2020, 33, 2385-2389.	1.8	3
58	Effect of Eu <sup>3+</sup> in tuning the ultrafast third-order optical nonlinearity in heavy metal borate glasses. <i>Optical Materials</i> , 2020, 108, 110051.	3.6	45
59	Structural investigations of picosecond laser ablated GaAs nanoparticles in different liquids. <i>Nano Structures Nano Objects</i> , 2020, 23, 100509.	3.5	8
60	Non-spherical aluminum nanoparticles fabricated using picosecond laser ablation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 980-986.	4.9	1
61	Silver nanoribbons achieved by picosecond ablation using cylindrical focusing and SERS-based trace detection of TNT. <i>RSC Advances</i> , 2020, 10, 41217-41228.	3.6	6
62	Multistep Electron Injection Dynamics and Optical Nonlinearity Investigations of $\pi$ -Extended Thioalkyl-Substituted Tetrathiafulvalene Sensitizers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24039-24051.	3.1	21
63	Aggregation induced, formaldehyde tailored nanowire like networks of Cu and their SERS activity. <i>Chemical Physics Letters</i> , 2020, 748, 137390.	2.6	8
64	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
65	Structural and femtosecond third-order nonlinear optical properties of electron donor $\pi$ -acceptor substituted chalcones: An experimental and computational approach. <i>Journal of Molecular Structure</i> , 2020, 1219, 128523.	3.6	19
66	Identification of metals and alloys using color CCD images of laser-induced breakdown emissions coupled with machine learning. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	5
67	3PA-induced optical limiting in pure and barium borate decorated MoS <sub>2</sub> nanocomposites. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	14
68	Chromatographically separable ruffled non-planar isomeric octaalkylporphycenes: consequences of unsymmetrical substitution upon structure and photophysical properties. <i>New Journal of Chemistry</i> , 2020, 44, 9616-9620.	2.8	13
69	Ultrafast nonlinear optical properties and excited-state dynamics of Soret-band excited D- $\pi$ -D porphyrins. <i>Optical Materials</i> , 2020, 107, 110041.	3.6	27
70	Strong two-photon absorption in ErFeO <sub>3</sub> thin films studied using femtosecond near-infrared Z-scan technique. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	7
71	Investigations on nonlinear optical properties of gold nanoparticles doped fluoroborate glasses for optical limiting applications. <i>Journal of Non-Crystalline Solids</i> , 2020, 538, 120010.	3.1	30
72	Influence of PbO on nonlinear optical properties of Eu <sup>3+</sup> doped La <sub>2</sub> O <sub>3</sub> $\pi$ PbO $\pi$ B <sub>2</sub> O <sub>3</sub> glasses. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2

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73	Anisotropic Nonlinear Optical and Optical Limiting Studies of an Ethylenediamminium Picrate Crystal with Femtosecond Excitation. <i>ChemistrySelect</i> , 2020, 5, 2119-2129.	1.5	5
74	Giant Nonlinear Optical Response in Triple Cation Halide Mixed Perovskite Films. <i>Advanced Optical Materials</i> , 2020, 8, 1901766.	7.3	24
75	Synthesis of CuO hollow nanoparticles using laser ablation: effect of fluence and solvents. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	25
76	Dopant induced modifications in the microstructure and nonlinear optical properties of 4N4MSP chalcone doped PVA films. <i>Optical Materials</i> , 2020, 101, 109708.	3.6	10
77	Gold-nanoparticle- and nanostar-loaded paper-based SERS substrates for sensing nanogram-level Picric acid with a portable Raman spectrometer. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	29
78	Structural, optical, thermal and nonlinear optical properties of Triphenylamine (TPA) single crystal grown by Bridgman "Stockbarger" method. <i>Chemical Physics Letters</i> , 2020, 742, 137128.	2.6	11
79	Unsymmetrical $\beta$ -functionalized "push"pull porphyrins: synthesis and photophysical, electrochemical and nonlinear optical properties. <i>Dalton Transactions</i> , 2020, 49, 3198-3208.	3.3	34
80	Fabrication of nanocages on nickel using femtosecond laser ablation and trace level detection of malachite green and Nile blue dyes using surface enhanced Raman spectroscopic technique. <i>Optics and Laser Technology</i> , 2020, 131, 106454.	4.6	19
81	Standoff femtosecond filament-induced breakdown spectroscopy for classification of geological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 3007-3020.	3.0	19
82	Robust and cost-effective silver dendritic nanostructures for SERS-based trace detection of RDX and ammonium nitrate. <i>RSC Advances</i> , 2020, 10, 44747-44755.	3.6	16
83	Direct Fabrication of sub 100 nm Nanoneedles in Silver using Femtosecond Laser Direct Writing. <i>Defence Science Journal</i> , 2020, 70, 197-200.	0.8	1
84	Femtosecond Filaments for Standoff Detection of Explosives. <i>Defence Science Journal</i> , 2020, 70, 359-365.	0.8	5
85	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
86	Filter paper loaded with gold nanoparticles as flexible SERS substrates for sensing applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
87	Femtosecond Transient Absorption Spectroscopy Studies of Ethynylthiophene Functionalized Porphyrin. , 2020, , .		0
88	Fabrication of silver honey comb nano template. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
89	Synthesis, growth, structural, optical, thermal, laser damage threshold and computational perspectives of 4-nitrophenol 4-aminobenzoic acid monohydrate (4NPABA) single crystal. <i>Journal of Molecular Structure</i> , 2019, 1176, 254-265.	3.6	38
90	Ultrafast excited state dynamics and femtosecond nonlinear optical properties of laser fabricated Au and Ag <sub>50</sub> Au <sub>50</sub> nanoparticles. <i>Optical Materials</i> , 2019, 95, 109239.	3.6	19

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91	Low cost "green" dye sensitized solar cells based on New Fuchsin dye with aqueous electrolyte and platinum-free counter electrodes. <i>Solar Energy</i> , 2019, 188, 913-923.	6.1	21
92	Hierarchical Laser-Patterned Silver/Graphene Oxide Hybrid SERS Sensor for Explosive Detection. <i>ACS Omega</i> , 2019, 4, 17691-17701.	3.5	32
93	Broadband femtosecond nonlinear optical properties of silver nanowire films. <i>Optical Materials</i> , 2019, 96, 109305.	3.6	24
94	An investigation on the growth and properties of KDP admixed ADP single crystals. <i>Ferroelectrics</i> , 2019, 550, 151-172.	0.6	5
95	Influence of Eu <sup>3+</sup> ions on nonlinear optical properties of alkali borate glasses at near-infrared wavelengths. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
96	Femtosecond nonlinear optical properties of heavy metal borate glasses studied using Z-scan technique. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
97	Deciphering the Ultrafast Nonlinear Optical Properties and Dynamics of Pristine and Ni-Doped CsPbBr <sub>3</sub> Colloidal Two-Dimensional Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5577-5584.	4.6	50
98	Broadband ultrafast nonlinear optical studies revealing exciting multi-photon absorption coefficients in phase pure zero-dimensional Cs <sub>4</sub> PbBr <sub>6</sub> perovskite films. <i>Nanoscale</i> , 2019, 11, 945-954.	5.6	65
99	Explosives sensing using Ag-Cu alloy nanoparticles synthesized by femtosecond laser ablation and irradiation. <i>RSC Advances</i> , 2019, 9, 1517-1525.	3.6	75
100	Enhanced catalytic and SERS performance of shape/size controlled anisotropic gold nanostructures. <i>New Journal of Chemistry</i> , 2019, 43, 3835-3847.	2.8	30
101	Linear and femtosecond nonlinear optical properties of soluble pyrrolo[1,2-a] quinoxalines. <i>Chemical Physics Letters</i> , 2019, 730, 638-642.	2.6	13
102	Quantitative Analysis of Catalysis and SERS Performance in Hollow and Star-Shaped Au Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16210-16222.	3.1	22
103	Surface-enhanced Raman scattering studies of gold-coated ripple-like nanostructures on iron substrate achieved by femtosecond laser irradiation in water. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1103-1113.	2.5	23
104	Cu nanoclusters in ion exchanged soda-lime glass: Study of SPR and nonlinear optical behavior for photonics. <i>Applied Materials Today</i> , 2019, 15, 323-334.	4.3	29
105	Synthesis, Optical, Electrochemical, DFT Studies, NLO Properties, and Ultrafast Excited State Dynamics of Carbazole-Induced Phthalocyanine Derivatives. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11118-11133.	3.1	70
106	Femtosecond nonlinear absorption and optical limiting action in nanoplatelet CuFe <sub>2</sub> O <sub>4</sub> -decorated rGO nanocomposites. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	10
107	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
108	SERS based detection of multiple analytes from dye/explosive mixtures using picosecond laser fabricated gold nanoparticles and nanostructures. <i>Analyst</i> , 2019, 144, 2327-2336.	3.5	54

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109	Study of Tunable Plasmonic, Photoluminescence, and Nonlinear Optical Behavior of Ag Nanoclusters Embedded in a Glass Matrix for Multifunctional Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800768.	1.8	21
110	Commercial DVDs loaded with Femtosecond Laser Prepared Gold Nanoparticles as SERS Substrates. , 2019, , .		2
111	Stand-off Femtosecond Laser Induced Breakdown Spectroscopy of Metals, Soil, Plastics and Classification Studies. , 2019, , .		4
112	Femtosecond Laser-patterned and Au-coated Iron Surfaces as SERS Platforms for Multiple Analytes Detection. , 2019, , .		1
113	Optoelectronic, femtosecond nonlinear optical properties and excited state dynamics of a triphenyl imidazole induced phthalocyanine derivative. <i>RSC Advances</i> , 2019, 9, 36726-36741.	3.6	29
114	Improved femtosecond third-order nonlinear optical properties of thin layered Cu <sub>3</sub> Nb <sub>2</sub> O <sub>8</sub> . <i>Optical Materials</i> , 2019, 88, 586-593.	3.6	19
115	Growth, structural, optical, thermal, laser damage threshold and theoretical investigations of organic nonlinear optical 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1553-1570.	2.2	14
116	Hafnium oxide nanoparticles fabricated by femtosecond laser ablation in water. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	13
117	Standoff discrimination and trace detection of explosive molecules using femtosecond filament induced breakdown spectroscopy combined with silver nanoparticles. <i>OSA Continuum</i> , 2019, 2, 554.	1.8	24
118	Nanoparticle Aluminum Preparation. , 2019, , .		0
119	Third-order nonlinear optical properties of 1,3-bis(3,4-dimethoxyphenyl) prop-2-en-1-one under femtosecond laser pulses. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
120	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
121	Three-dimensional hybrid silicon nanostructures for surface enhanced Raman spectroscopy based molecular detection. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	31
122	Synthesis of Si/SiO <sub>2</sub> nanoparticles using nanosecond laser ablation of silicate-rich garnet in water. <i>Optical Materials</i> , 2018, 75, 350-356.	3.6	19
123	Enhanced broadband optical limiting and switching of nonlinear absorption in functionalized solar exfoliated reduced graphene oxide@Ag-Fe <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	18
124	Femtosecond Laser-Induced, Nanoparticle-Embedded Periodic Surface Structures on Crystalline Silicon for Reproducible and Multi-utility SERS Platforms. <i>ACS Omega</i> , 2018, 3, 18420-18432.	3.5	46
125	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
126	Wavelength-Dependent Nonlinear Optical Absorption and Broadband Optical Limiting in Au-Fe <sub>2</sub> O <sub>3</sub> -rGO Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018, 1, 6337-6348.	5.0	46



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127	Nonlinear absorption and refraction studies of truncated CuNb <sub>3</sub> O <sub>8</sub> with high-repetition rate femtosecond pulses. <i>Materials Chemistry and Physics</i> , 2018, 220, 342-350.	4.0	5
128	Femtosecond nonlinear optical properties of laser ablated gold nanoparticles in water. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
129	Femtosecond laser induced breakdown spectroscopy based standoff detection of explosives and discrimination using principal component analysis. <i>Optics Express</i> , 2018, 26, 8069.	3.4	54
130	Discrimination of bimetallic alloy targets using femtosecond filament-induced breakdown spectroscopy in standoff mode. <i>Optics Letters</i> , 2018, 43, 3465.	3.3	17
131	Femtosecond Laser Fabricated Ag@Au and Cu@Au Alloy Nanoparticles for Surface Enhanced Raman Spectroscopy Based Trace Explosives Detection. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	59
132	Ag/Au Nanoparticle-Loaded Paper-Based Versatile Surface-Enhanced Raman Spectroscopy Substrates for Multiple Explosives Detection. <i>ACS Omega</i> , 2018, 3, 8190-8201.	3.5	100
133	Broadband femtosecond nonlinear optical properties of CsPbBr <sub>3</sub> perovskite nanocrystals. <i>Optics Letters</i> , 2018, 43, 603.	3.3	64
134	Femtosecond, broadband nonlinear optical studies of a zinc porphyrin and zinc phthalocyanine. <i>Optics and Laser Technology</i> , 2018, 108, 418-425.	4.6	42
135	Synthesis, crystal growth, structure and characterization of a novel third order nonlinear optical organic single crystal: 2-Amino 4,6-Dimethyl Pyrimidine 4-nitrophenol. <i>Optical Materials</i> , 2018, 84, 475-489.	3.6	75
136	Picosecond laser fabricated Ag, Au and Ag-Au nanoparticles for detecting ammonium perchlorate using a portable Raman spectrometer. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	6
137	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
138	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
139	Experimental evidence of two-photon absorption and its saturation in malachite green oxalate: a femtosecond Z-scan study. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2906.	2.1	26
140	Standoff Detection of RDX, TNT, and HMX Using Femtosecond Filament Induced Breakdown Spectroscopy. , 2018, , .		1
141	Laser ablation of natural micas: Synthesis of MgO and Mg(OH) <sub>2</sub> nanoparticles and nanochains. <i>Materials Letters</i> , 2017, 192, 29-32.	2.6	11
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330	First-order quasiphase matched second harmonic generation in GaAs/AlAs superlattice waveguides by use of ion-implantation induced intermixing. , 0, , .		0
331	Second harmonic generation in GaAs/AlGaAs waveguides with femtosecond pulses near 1.55 $\mu$ m using modal phase matching technique. , 0, , .		0
332	Nanostructured plasmonic metal targets for Raman-based explosives detection. SPIE Newsroom, 0, , .	0.1	0