Chunlei Guo

List of Publications by Year
in descending order

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Version: 2024-02-01

358 papers	10,778 citations	44069 48 h-index	45317 90 g-index
376 all docs	376 docs citations	376 times ranked	8028 citing authors

#	Article	IF	Citations
1	Laserâ€Assisted Synthesis of Ag₂Sâ€Quantumâ€Dotâ€inâ€Perovskite Matrix and Its Application in Broadband Photodetectors. Advanced Optical Materials, 2022, 10, 2101535.	7.3	10
2	Fabrication of Superhydrophobic Gully-Structured Surfaces by Femtosecond Laser and Imprinting for High-Efficiency Self-Cleaning Rain Collection. Langmuir, 2022, 38, 2720-2728.	3.5	8
3	Calcination Temperature Induced Structural, Optical and Magnetic Transformations in Titanium Ferrite Nanoparticles. Reactions, 2022, 3, 224-232.	2.1	0
4	Femtosecond laserâ€produced optical absorbers for solarâ€thermal energy harvesting. EcoMat, 2022, 4, .	11.9	6
5	Switchable Gratings for Ultracompact and Ultrahigh Modulation Depth Plasmonic Switches. Plasmonics, 2022, 17, 1361-1368.	3.4	1
6	Femtosecond laser fabrication and chemical coating of anti-corrosion ethylene-glycol repellent aluminum surfaces. Materials Letters, 2022, 323, 132562.	2.6	5
7	All-optical AND, NOR, and XNOR logic gates using semiconductor optical amplifiers-based Mach-Zehnder interferometer followed by a delayed interferometer. Optik, 2021, 225, 165901.	2.9	15
8	Theoretical Demonstration of 250 Gb/s Ultrafast All-Optical Memory Using Mach-Zehnder Interferometers With Quantum-Dot Semiconductor Optical Amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	2.9	5
9	Singleâ€Step and Sustainable Fabrication of Ni(OH)₂/Ni Foam Water Splitting Catalysts via Electric Field Assisted Pulsed Laser Ablation in Liquid. ChemElectroChem, 2021, 8, 209-217.	3.4	13
10	Investigation of Resonance-Enhanced High-Order Harmonics by Two-Component Laser-Produced Plasmas. Atoms, 2021, 9, 1.	1.6	8
11	Fano-resonant ultrathin film optical coatings. Nature Nanotechnology, 2021, 16, 440-446.	31.5	51
12	Probing Laser Plasma Dynamics Using High-Order Harmonics Generation in Carbon-Containing Nanomaterials. Applied Sciences (Switzerland), 2021, 11, 2143.	2.5	8
13	Ultrabroadband, compact, polarization independent and efficient metasurface-based power splitter on lithium niobate waveguides. Optics Express, 2021, 29, 8160.	3.4	2
14	Direct determination of complex amplitude of arbitrary ultrashort pulses via spectral phase conjugation. New Journal of Physics, 2021, 23, 033047.	2.9	1
15	Significantly enhanced electrocatalytic activity of copper for hydrogen evolution reaction through femtosecond laser blackening. International Journal of Hydrogen Energy, 2021, 46, 10783-10788.	7.1	15
16	Spectrally resolved wedged reversal shearing interferometer. Optics Letters, 2021, 46, 1796.	3.3	0
17	Sandwich-like NOCC@S8/rGO composite as cathode for high energy lithium-sulfur batteries. Energy, 2021, 220, 119747.	8.8	14
18	100ÂGb/s all-optical multifunctional AND, NOR, XOR, OR, XNOR, and NAND logic gates in a single compact scheme based on semiconductor optical amplifiers. Optics and Laser Technology, 2021, 137, 106828.	4.6	38

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19	Target phase-induced compositional control in liquid-phase pulsed laser ablation produced titanium ferrite nanomaterials. Bulletin of Materials Science, 2021, 44, 1.	1.7	0
20	Resonance-enhanced high harmonic in metal ions driven by elliptically polarized laser pulses. Optics Letters, 2021, 46, 2372.	3.3	12
21	Femtosecond laser fabrication of square pillars integrated Siberian-Cocklebur-like microstructures surface for anti-icing. Materials and Design, 2021, 204, 109689.	7.0	21
22	Theoretical investigation of 120ÂGb/s all-optical AND and OR logic gates using reflective semiconductor optical amplifiers. Optical Engineering, 2021, 60, .	1.0	4
23	Distinguishing monomer and nanoparticle contributions to high-harmonic emission from laser-ablated plumes. Optics Express, 2021, 29, 23421.	3.4	7
24	Compact vectorial optical field generator using a single phase-only spatial light modulator. Optics Letters, 2021, 46, 3901.	3.3	1
25	Reconfigurable metasurface-based 1 Ã— 2 waveguide switch. Photonics Research, 2021, 9, 2104.	7.0	15
26	Femtosecond and picosecond laser fabrication for long-term superhydrophilic metal surfaces. Optics and Laser Technology, 2021, 143, 107241.	4.6	18
27	Third-order nonlinear optical effects of silver nanoparticles and third harmonic generation from their plasma plumes. Optik, 2021, 245, 167680.	2.9	4
28	Controlling Voronoi partitions on femtosecond-laser-superheated metal surfaces. Applied Surface Science, 2021, 568, 150913.	6.1	1
29	Phase change material based hot electron photodetection. Nanoscale, 2021, 13, 1311-1317.	5.6	13
30	Phase change material-based nano-cavity as an efficient optical modulator. Nanotechnology, 2021, 32, 095207.	2.6	21
31	Multifractal characterization of femtosecond laser-induced herringbone patterns. JPhys Photonics, 2021, 3, 015001.	4.6	0
32	Imaging nanostructure phase transition through ultrafast far-field optical ultramicroscopy. Cell Reports Physical Science, 2021, 2, 100651.	5.6	1
33	Formation, aging and self-assembly of regular nanostructures from laser ablation of indium and zinc in water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 584, 124016.	4.7	5
34	A self-driven microfluidic surface-enhanced Raman scattering device for Hg²⁺ detection fabricated by femtosecond laser. Lab on A Chip, 2020, 20, 414-423.	6.0	24
35	Research progress of femtosecond surface plasmon polariton*. Chinese Physics B, 2020, 29, 027302.	1.4	14
36	Ten-Input Cube Root Logic Computation with Rational Designed DNA Nanoswitches Coupled with DNA Strand Displacement Process. ACS Applied Materials & Interfaces, 2020, 12, 2601-2606.	8.0	11

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37	Creating superhydrophobic and antibacterial surfaces on gold by femtosecond laser pulses. Applied Surface Science, 2020, 506, 144952.	6.1	102
38	All-optical NOR and XNOR logic gates at 2ÂTb/s based on two-photon absorption in quantum-dot semiconductor optical amplifiers. Optical and Quantum Electronics, 2020, 52, 1.	3.3	17
39	Noncollinear excitation of surface plasmons for triangular structure formation on Cr surfaces by femtosecond lasers. Applied Surface Science, 2020, 507, 144932.	6.1	11
40	Design of Aluminum Bowtie Nanoantenna Array with Geometrical Control to Tune LSPR from UV to Near-IR for Optical Sensing. Plasmonics, 2020, 15, 609-621.	3.4	53
41	Compositional Engineering Study of Lead-Free Hybrid Perovskites for Solar Cell Applications. ACS Applied Materials & Interfaces, 2020, 12, 49636-49647.	8.0	31
42	Construction of a simple and intelligent DNA-based computing system for multiplexing logic operations. Acta Biomaterialia, 2020, 118, 44-53.	8.3	5
43	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. Advanced Energy Materials, 2020, 10, 2000453.	19.5	42
44	Solar-trackable super-wicking black metal panel for photothermal water sanitation. Nature Sustainability, 2020, 3, 938-946.	23.7	139
45	Optical-field driven charge-transfer modulations near composite nanostructures. Nature Communications, 2020, 11, 6150.	12.8	2
46	Effect of Ag2S Nanocrystals/Reduced Graphene Oxide Interface on Hydrogen Evolution Reaction. Catalysts, 2020, 10, 948.	3.5	15
47	120 Gb/s all-optical NAND logic gate using reflective semiconductor optical amplifiers. Journal of Modern Optics, 2020, 67, 1138-1144.	1.3	16
48	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	19.5	2
49	Annihilation mechanism of excitons in a MoS2 monolayer through direct FÃ¶rster-type energy transfer and multistep diffusion. Physical Review B, 2020, 101, .	3.2	11
50	Metalâ€“Dielectricâ€“Metal Metamaterial-Based Hydrogen Sensors in the Water Transmission Window. , 2020, 4, 1-4.		12
51	Back-Reflected Performance-Enhanced Flexible Perovskite Photodetectors through Substrate Texturing with Femtosecond Laser. ACS Applied Materials & Interfaces, 2020, 12, 26614-26623.	8.0	12
52	Enhancing Perovskite Solar Cell Performance through Femtosecond Laser Polishing. Solar Rrl, 2020, 4, 2000189.	5.8	27
53	Boosting Perovskite Photodetector Performance in NIR Using Plasmonic Bowtie Nanoantenna Arrays. Small, 2020, 16, e2001417.	10.0	21
54	A Highly Sensitive Single Crystal Perovskiteâ€“Graphene Hybrid Vertical Photodetector. Small, 2020, 16, e2000733.	10.0	55

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55	Multipronged heat-exchanger based on femtosecond laser-nano/microstructured Aluminum for thermoelectric heat scavengers. Nano Energy, 2020, 75, 104987.	16.0	21
56	Fabrication of homogenous subwavelength grating structures on metallic glass using double-pulsed femtosecond lasers. Optics and Lasers in Engineering, 2020, 134, 106273.	3.8	14
57	Comparative study of femtosecond laser-induced structural colorization in water and air. Nanoscale Advances, 2020, 2, 2958-2967.	4.6	15
58	Memories in the photoluminescence intermittency of single cesium lead bromide nanocrystals. Nanoscale, 2020, 12, 6795-6802.	5.6	17
59	Exciton dynamics in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> on a hyperbolic metamaterial-based nanophotonic platform. Physical Review B, 2020, 101, .	3.2	12
60	All-optical multifunctional AND, NOR, and XNOR logic gates using semiconductor optical amplifiers. Physica Scripta, 2020, 95, 085506.	2.5	13
61	Modulating the optical and electrical properties of MAPbBr3 single crystals via voltage regulation engineering and application in memristors. Light: Science and Applications, 2020, 9, 111.	16.6	51
62	Laser-induced regular nanostructure chains within microgrooves of Fe-based metallic glass. Applied Surface Science, 2020, 529, 147156.	6.1	9
63	Ultra-smooth ultrathin silver films deposited on acid treated Silicon substrates. Nano Express, 2020, 1, 020012.	2.4	0
64	Numerical modeling of photonic crystal semiconductor optical amplifiers-based 160ÂGb/s all-optical NOR and XNOR logic gates. Optical and Quantum Electronics, 2020, 52, 1.	3.3	14
65	Giant Nonlinear Optical Response in Triple Cation Halide Mixed Perovskite Films. Advanced Optical Materials, 2020, 8, 1901766.	7.3	24
66	Influence of PVP polymer concentration on nonlinear absorption in silver nanoparticles at resonant excitation. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	3
67	Design of Extremely Sensitive Refractive Index Sensors in Infrared for Blood Glucose Detection. IEEE Sensors Journal, 2020, 20, 4628-4634.	4.7	52
68	Spectral absorption control of femtosecond laser-treated metals and application in solar-thermal devices. Light: Science and Applications, 2020, 9, 14.	16.6	63
69	1-D Metal-Dielectric-Metal Grating Structure as an Ultra-Narrowband Perfect Plasmonic Absorber in the Visible and Its Application in Glucose Detection. Plasmonics, 2020, 15, 1339-1350.	3.4	13
70	Single-step maskless nano-lithography on glass by femtosecond laser processing. Journal of Applied Physics, 2020, 127, .	2.5	5
71	High-speed femtosecond laser plasmonic lithography and reduction of graphene oxide for anisotropic photoresponse. Light: Science and Applications, 2020, 9, 69.	16.6	110
72	High-efficiency non-diffractive generator of arbitrary vectorial optical fields with minimal optical elements. Optics Communications, 2020, 463, 125443.	2.1	1

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73	Dielectric Nanoaperture Metasurfaces in Silicon Waveguides for Efficient and Broadband Mode Conversion with an Ultrasmall Footprint. Advanced Optical Materials, 2020, 8, 2000529.	7.3	16
74	All-optical OR and NOR gates using quantum-dot semiconductor optical amplifiers-assisted turbo-switched Mach-Zehnder interferometer and serially delayed interferometer at 1 Tb/s. Optik, 2020, 218, 164879.	2.9	8
75	Reflective semiconductor optical amplifiers-based all-optical NOR and XNOR logic gates at 120 Gb/s. Journal of Modern Optics, 2020, 67, 1424-1435.	1.3	12
76	Observation of resonance-enhanced high-order harmonics from direct excitation of metal nanoparticles with femtosecond pulses. Physical Review A, 2020, 102, .	2.5	10
77	Generalized emptying criteria for finite-lengthed capillary. Physical Review Fluids, 2020, 5, .	2.5	5
78	Capture of femtosecond plasmon excitation on transient nonequilibrium states of the metal surface. Physical Review Research, 2020, 2, .	3.6	3
79	Carbon Nanotubes Conjugated Mesoporous Tungsten Trioxide as Anode Electrocatalyst for Microbial Fuel Cells. ECS Journal of Solid State Science and Technology, 2020, 9, 115010.	1.8	7
80	Rapid fabrication of anti-corrosion and self-healing superhydrophobic aluminum surfaces through environmentally friendly femtosecond laser processing. Optics Express, 2020, 28, 35636.	3.4	44
81	Producing anomalous uniform periodic nanostructures on Cr thin films by femtosecond laser irradiation in vacuum. Optics Letters, 2020, 45, 1301.	3.3	5
82	Dynamic control of spontaneous emission rate using tunable hyperbolic metamaterials. Optics Letters, 2020, 45, 1671.	3.3	16
83	Thin-film perfect infrared absorbers over single- and dual-band atmospheric windows. Optics Letters, 2020, 45, 2800.	3.3	12
84	Rotationally symmetric colorization of metal surfaces through omnidirectional femtosecond laser-induced periodic surface structures. Optics Letters, 2020, 45, 3414.	3.3	8
85	All-optical logic gates using dielectric-loaded waveguides with quasi-rhombus metasurfaces. Optics Letters, 2020, 45, 3769.	3.3	16
86	Plasmonic analogue of geometric diodes realizing asymmetric optical transmission. Optics Letters, 2020, 45, 3937.	3.3	2
87	SERS study on the synergistic effects of electric field enhancement and charge transfer in an Ag₂S quantum dots/plasmonic bowtie nanoantenna composite system. Photonics Research, 2020, 8, 548.	7.0	16
88	Simultaneous implementation of antireflection and antitransmission through multipolar interference in plasmonic metasurfaces and applications in optical absorbers and broadband polarizers. Nanophotonics, 2020, 9, 4529-4538.	6.0	11
89	High-Order Harmonic Generation in Au Nanoparticle-Contained Plasmas. Nanomaterials, 2020, 10, 234.	4.1	10
90	Spatial Wavefunction Characterization of Femtosecond Pulses at Single-Photon Level. Research, 2020, 2020, 2421017.	5.7	3

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91	Superwicking Black Metal Surface for Solar-Thermal Water Sanitation. Optics and Photonics News, 2020, 31, 60.	0.5	4
92	10.1063/1.5142700.1. , 2020, , .		0
93	Ultrathin-film optical coating for angle-independent remote hydrogen sensing. Measurement Science and Technology, 2020, 31, 115201.	2.6	6
94	Anomalous Ambipolar Phototransistors Based on Allâ€Inorganic CsPbBr₃ Perovskite at Room Temperature. Advanced Optical Materials, 2019, 7, 1900676.	7.3	33
95	Nonlinear optical characterization of copper oxide nanoellipsoids. Scientific Reports, 2019, 9, 11414.	3.3	57
96	Ultrasensitive Optical Detection of Water Pressure in Microfluidics Using Smart Reduced Graphene Oxide Glass. Frontiers in Chemistry, 2019, 7, 395.	3.6	10
97	Resonance-enhanced harmonics in mixed laser-produced plasmas. Plasma Research Express, 2019, 1, 035002.	0.9	7
98	Formation of controllable 1D and 2D periodic surface structures on cobalt by femtosecond double pulse laser irradiation. Applied Physics Letters, 2019, 115, .	3.3	33
99	Influence of gadolinium doping on low- and high-order nonlinear optical properties and transient absorption dynamics of ZnO nanomaterials. Optical Materials, 2019, 95, 109241.	3.6	8
100	Hydrogen Sensing Using Thin-Film Perfect Light Absorber. ACS Photonics, 2019, 6, 1889-1894.	6.6	25
101	Creating Superhydrophobic Polymer Surfaces with Superstrong Resistance to Harsh Cleaning and Mechanical Abrasion Fabricated by Scalable Oneâ€Step Thermalâ€Imprinting. Advanced Materials Interfaces, 2019, 6, 1900240.	3.7	11
102	Photothermal and Joule-Heating-Induced Negative-Photoconductivity-Based Ultraresponsive and Near-Zero-Biased Copper Selenide Photodetectors. ACS Applied Electronic Materials, 2019, 1, 1169-1178.	4.3	40
103	One-step fabrication of bi- and quad-directional femtosecond laser-induced periodic surface structures on metal with a depolarizer. Applied Surface Science, 2019, 493, 231-238.	6.1	6
104	Theoretical investigation of strain-engineered WSe2 monolayers as anode material for Li-ion batteries. Journal of Alloys and Compounds, 2019, 804, 370-375.	5.5	39
105	Aluminum nanoparticle plasma formation for high-order harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 245601.	1.5	0
106	Time-dependent optimization of laser-produced molecular plasmas through high-order harmonic generation. Physics of Plasmas, 2019, 26, 100703.	1.9	4
107	Programmable DNA Nanoindicatorâ€Based Platform for Largeâ€Scale Square Root Logic Biocomputing. Small, 2019, 15, e1903489.	10.0	23
108	Study of various material particles by third harmonic generation method based on laser pulse induced plasma. Optical Materials, 2019, 98, 109423.	3.6	1

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109	High-order harmonic generation using quasi-phase matching and two-color pump in the plasmas containing molecular and alloyed metal sulfide quantum dots. Journal of Applied Physics, 2019, 126, 193103.	2.5	19
110	Highly Floatable Superhydrophobic Metallic Assembly for Aquatic Applications. ACS Applied Materials & Interfaces, 2019, 11, 48512-48517.	8.0	28
111	Femtosecond-Laser-Produced Underwater â€œSuperpolymphobicâ€•Nanorippled Surfaces: Repelling Liquid Polymers in Water for Applications of Controlling Polymer Shape and Adhesion. ACS Applied Nano Materials, 2019, 2, 7362-7371.	5.0	22
112	Fluorescence enhanced lab-on-a-chip patterned using a hybrid technique of femtosecond laser direct writing and anodized aluminum oxide porous nanostructuring. Nanoscale Advances, 2019, 1, 3474-3484.	4.6	7
113	Enhancing thermoelectric output power via radiative cooling with nanoporous alumina. Nano Energy, 2019, 65, 104060.	16.0	70
114	Structural variations during aging of the particles synthesized by laser ablation of copper in water. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	9
115	Broadband infrared plasmonic metamaterial absorber with multipronged absorption mechanisms. Optics Express, 2019, 27, 27917.	3.4	38
116	Microfluidic Channels Fabrication Based on Underwater Superpolymphobic Microgrooves Produced by Femtosecond Laser Direct Writing. ACS Applied Polymer Materials, 2019, 1, 2819-2825.	4.4	21
117	Hierarchical micro/nanostructured TiO2/Ag substrates based on femtosecond laser structuring: A facile route for enhanced SERS performance and location predictability. Applied Surface Science, 2019, 478, 737-743.	6.1	31
118	Metasurface integrated with double-helix point spread function and metalens for three-dimensional imaging. Nanophotonics, 2019, 8, 451-458.	6.0	25
119	Substrate-Independent, Fast, and Reversible Switching between Underwater Superaerophobicity and Aerophilicity on the Femtosecond Laser-Induced Superhydrophobic Surfaces for Selectively Repelling or Capturing Bubbles in Water. ACS Applied Materials & Interfaces, 2019, 11, 8667-8675.	8.0	64
120	Interaction of Pulses of Different Duration with Chemically Prepared Silver Nanoparticles: Analysis of Optical Nonlinearities. Journal of Nanomaterials, 2019, 2019, 1-12.	2.7	4
121	Pulse Duration and Wavelength Effects of Laser Ablation on the Oxidation, Hydrolysis, and Aging of Aluminum Nanoparticles in Water. Nanomaterials, 2019, 9, 767.	4.1	21
122	Ultrafast performance of all-optical AND and OR logic operations at 160â€¯Gb/s using photonic crystal semiconductor optical amplifier. Optics and Laser Technology, 2019, 119, 105611.	4.6	28
123	Femtosecond Laser-Structured Underwater â€œSuperpolymphobicâ€•Surfaces. Langmuir, 2019, 35, 9318-9322.	3.5	21
124	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. ACS Photonics, 2019, 6, 1610-1617.	6.6	42
125	Superamphiphobic Surfaces with Controllable Adhesion Fabricated by Femtosecond Laser Bessel Beam on PTFE. Advanced Materials Interfaces, 2019, 6, 1900550.	3.7	38
126	A High-Efficiency Multispectral Filter Based on Plasmonic Hybridization between Two Cascaded Ultrathin Nanogratings. Molecules, 2019, 24, 2038.	3.8	4

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127	Plasmonic metasurfaces with 42.3% transmission efficiency in the visible. Light: Science and Applications, 2019, 8, 53.	16.6	51
128	Effect of Size on the Saturable Absorption and Reverse Saturable Absorption in Silver Nanoparticle and Ultrafast Dynamics at 400â€‰nm. Journal of Nanomaterials, 2019, 2019, 1-12.	2.7	23
129	Comparative analyses of optical limiting effects in metal nanoparticles and perovskite nanocrystals. Optical Materials, 2019, 92, 366-372.	3.6	15
130	A review of femtosecond laser-structured superhydrophobic or underwater superoleophobic porous surfaces/materials for efficient oil/water separation. RSC Advances, 2019, 9, 12470-12495.	3.6	89
131	Effects of Laser Plasma Formation on Quasi-Phase Matching of High-Order Harmonics from Nanoparticles and Atoms. Nanomaterials, 2019, 9, 572.	4.1	7
132	High-order harmonics generation under quasi-phase matched conditions in silver, boron, and silver sulfide plasmas of different configurations. Journal of Applied Physics, 2019, 125, .	2.5	5
133	Split aptamer-based detection of adenosine triphosphate using surface enhanced Raman spectroscopy and two kinds of gold nanoparticles. Mikrochimica Acta, 2019, 186, 251.	5.0	24
134	Coral-like reduced graphene oxide/tungsten sulfide hybrid as a cathode host of high performance lithium-sulfur battery. Journal of Power Sources, 2019, 420, 22-28.	7.8	29
135	Ag‹sub›2‹/sub›S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. ACS Applied Energy Materials, 2019, 2, 2751-2759.	5.1	40
136	320ÂGb/s all-optical XOR gate using semiconductor optical amplifier-Machâ€“Zehnder interferometer and delayed interferometer. Photonic Network Communications, 2019, 38, 177-184.	2.7	23
137	Low- and high-order nonlinear optical properties of Ag‹sub›2‹/sub›S quantum dot thin films. Nanophotonics, 2019, 8, 849-858.	6.0	11
138	Maskless laser nano-lithography of glass through sequential activation of multi-threshold ablation. Applied Physics Letters, 2019, 114, .	3.3	13
139	Robust mold fabricated by femtosecond laser pulses for continuous thermal imprinting of superhydrophobic surfaces. Materials Research Express, 2019, 6, 075011.	1.6	10
140	1ÂTb/s all-optical XOR and AND gates using quantum-dot semiconductor optical amplifier-based turbo-switched Machâ€“Zehnder interferometer. Journal of Computational Electronics, 2019, 18, 628-639.	2.5	24
141	Nonlinear Optical Studies of Gold Nanoparticle Films. Nanomaterials, 2019, 9, 291.	4.1	31
142	Two-photon absorption in quantum dot semiconductor optical amplifiers-based all-optical XOR gate at 2ÂTb/s. Optical and Quantum Electronics, 2019, 51, 1.	3.3	8
143	Bioinspired Hierarchical Surfaces Fabricated by Femtosecond Laser and Hydrothermal Method for Water Harvesting. Langmuir, 2019, 35, 3562-3567.	3.5	54
144	Low- and high-order nonlinear optical studies of ZnO nanocrystals, nanoparticles, and nanorods. European Physical Journal D, 2019, 73, 1.	1.3	14

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145	Hydrogen evolution reaction from bare and surface-functionalized few-layered MoS2 nanosheets in acidic and alkaline electrolytes. Materials Today Chemistry, 2019, 14, 100207.	3.5	33
146	DNA-based digital comparator systems constructed by multifunctional nanoswitches. Nanoscale, 2019, 11, 21856-21866.	5.6	5
147	Third harmonic generation of undoped graphene in Hartree-Fock approximation. Physical Review B, 2019, 100, .	3.2	4
148	Numerical investigation of an all-optical logic OR gate at 80ÂGb/s with a dual pumpâ€“probe semiconductor optical amplifier (SOA)-assisted Machâ€“Zehnder interferometer (MZI). Journal of Computational Electronics, 2019, 18, 271-278.	2.5	7
149	Analytical treatment of quasi-phase matching of high-order harmonics in multijet laser plasmas: influence of free electrons between jets, intrinsic phase, and Gouy phase. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 075601.	1.5	4
150	How To Obtain Six Different Superwettabilities on a Same Microstructured Pattern: Relationship between Various Superwettabilities in Different Solid/Liquid/Gas Systems. Langmuir, 2019, 35, 921-927.	3.5	48
151	Effect of different hardness and melting point of the metallic surfaces on structural and optical properties of synthesized nanoparticles. Materials Research Express, 2019, 6, 045027.	1.6	2
152	Intraband divergences in third order optical response of 2D systems. APL Photonics, 2019, 4, .	5.7	14
153	Maskless formation of uniform subwavelength periodic surface structures by double temporally-delayed femtosecond laser beams. Applied Surface Science, 2019, 471, 516-520.	6.1	29
154	Ag2S quantum dots in the fields of picosecond and femtosecond UV and IR pulses: optical limiting, nonlinear absorption and refraction properties. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	21
155	Reducing Adhesion for Dispensing Tiny Water/Oil Droplets and Gas Bubbles by Femtosecond Laserâ€Treated Needle Nozzles: Superhydrophobicity, Superoleophobicity, and Superaerophobicity. ChemNanoMat, 2019, 5, 241-249.	2.8	18
156	2â€Tb/s all-optical gates based on two-photon absorption in quantum dot semiconductor optical amplifiers. Optics and Laser Technology, 2019, 112, 442-451.	4.6	27
157	Quasi-rhombus metasurfaces as multimode interference couplers for controlling the propagation of modes in dielectric-loaded waveguides. Optics Letters, 2019, 44, 1654.	3.3	10
158	Formation of uniform two-dimensional subwavelength structures by delayed triple femtosecond laser pulse irradiation. Optics Letters, 2019, 44, 2278.	3.3	9
159	Size-dependent off-resonant nonlinear optical properties of gold nanoparticles and demonstration of efficient optical limiting. Optical Materials Express, 2019, 9, 976.	3.0	29
160	Colorful multifunctional surfaces produced by femtosecond laser pulses. Optical Materials Express, 2019, 9, 1033.	3.0	16
161	Creation of enhanced transmission for clear and frosted glass through facile surface texturing. Optical Materials Express, 2019, 9, 2946.	3.0	4
162	Controllable fabrication of polygonal micro and nanostructures on sapphire surfaces by chemical etching after femtosecond laser irradiation. Optical Materials Express, 2019, 9, 2994.	3.0	2

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163	Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten. Optical Materials Express, 2019, 9, 3183.	3.0	11
164	Femtosecond laser ablation and photo-induced effects of As40S60, Ga08As392S60 and Ga08As292Sb10S60 chalcogenide glasses. Optical Materials Express, 2019, 9, 3582.	3.0	5
165	Role of carbon clusters in high-order harmonic generation in graphite plasmas. OSA Continuum, 2019, 2, 1510.	1.8	6
166	Comparison studies of high-order harmonic generation in argon gas and different laser-produced plasmas. OSA Continuum, 2019, 2, 2381.	1.8	11
167	Toward Multidirectional Laser-induced Periodic Surface Structure Formation on Metal. , 2019, , .		0
168	Charge Transfer Effects on Resonance-Enhanced Raman Scattering for Molecules Adsorbed on Single-Crystalline Perovskite. ACS Photonics, 2018, 5, 1619-1627.	6.6	41
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