

Subhash C Singh

List of Publications by Year in descending order

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180
papers

9,479
citations

50170

46
h-index

42291

92
g-index

188
all docs

188
docs citations

188
times ranked

7729
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct femtosecond laser surface nano/microstructuring and its applications. Laser and Photonics Reviews, 2013, 7, 385-407.	4.4	858
2	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. Advanced Functional Materials, 2012, 22, 1333-1353.	7.8	775
3	Green synthesis of nanoparticles and its potential application. Biotechnology Letters, 2016, 38, 545-560.	1.1	608
4	Colorizing metals with femtosecond laser pulses. Applied Physics Letters, 2008, 92, .	1.5	491
5	Multifunctional surfaces produced by femtosecond laser pulses. Journal of Applied Physics, 2015, 117, .	1.1	360
6	Periodic ordering of random surface nanostructures induced by femtosecond laser pulses on metals. Journal of Applied Physics, 2007, 101, 034903.	1.1	322
7	Enhanced absorptance of gold following multipulse femtosecond laser ablation. Physical Review B, 2005, 72, .	1.1	277
8	Femtosecond laser structuring of titanium implants. Applied Surface Science, 2007, 253, 7272-7280.	3.1	247
9	Femtosecond laser nanostructuring of metals. Optics Express, 2006, 14, 2164.	1.7	201
10	Ultrafast dynamics of femtosecond laser-induced periodic surface pattern formation on metals. Applied Physics Letters, 2005, 87, 251914.	1.5	183
11	Brighter Light Sources from Black Metal: Significant Increase in Emission Efficiency of Incandescent Light Sources. Physical Review Letters, 2009, 102, 234301.	2.9	177
12	Solar-trackable super-wicking black metal panel for photothermal water sanitation. Nature Sustainability, 2020, 3, 938-946.	11.5	139
13	Laser turns silicon superwicking. Optics Express, 2010, 18, 6455.	1.7	133
14	Metal pumps liquid uphill. Applied Physics Letters, 2009, 94, .	1.5	127
15	Optical Properties of Selenium Quantum Dots Produced with Laser Irradiation of Water Suspended Se Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 17374-17384.	1.5	127
16	Green synthesis of nano zinc oxide and evaluation of its impact on germination and metabolic activity of Solanum lycopersicum. Journal of Biotechnology, 2016, 233, 84-94.	1.9	125
17	Femtosecond laser-induced periodic surface structure formation on tungsten. Journal of Applied Physics, 2008, 104, .	1.1	112
18	Effect of aging on copper nanoparticles synthesized by pulsed laser ablation in water: structural and optical characterizations. Bulletin of Materials Science, 2011, 34, 1363-1369.	0.8	105

#	ARTICLE	IF	CITATIONS
19	Direct visualization of the complete evolution of femtosecond laser-induced surface structural dynamics of metals. <i>Light: Science and Applications</i> , 2017, 6, e16256-e16256.	7.7	104
20	Femtosecond laser blackening of platinum. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	103
21	Creating superhydrophobic and antibacterial surfaces on gold by femtosecond laser pulses. <i>Applied Surface Science</i> , 2020, 506, 144952.	3.1	102
22	Direct observation of enhanced residual thermal energy coupling to solids in femtosecond laser ablation. <i>Applied Physics Letters</i> , 2005, 86, 011916.	1.5	100
23	Ellipticity effects on single and double ionization of diatomic molecules in strong laser fields. <i>Physical Review A</i> , 2001, 63, .	1.0	92
24	A review of femtosecond laser-structured superhydrophobic or underwater superoleophobic porous surfaces/materials for efficient oil/water separation. <i>RSC Advances</i> , 2019, 9, 12470-12495.	1.7	89
25	Zinc Oxide Nanoparticles as Fertilizer for the Germination, Growth and Metabolism of Vegetable Crops. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013, 3, 353-364.	0.3	88
26	Angular effects of nanostructure-covered femtosecond laser induced periodic surface structures on metals. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	78
27	Enhancing thermoelectric output power via radiative cooling with nanoporous alumina. <i>Nano Energy</i> , 2019, 65, 104060.	8.2	70
28	Formation of extraordinarily uniform periodic structures on metals induced by femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2006, 100, 023511.	1.1	66
29	Synthesis of colloidal zinc oxide nanoparticles by pulsed laser ablation in aqueous media. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 724-730.	1.3	65
30	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. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8667-8675.	4.0	64
31	Spectral absorption control of femtosecond laser-treated metals and application in solar-thermal devices. <i>Light: Science and Applications</i> , 2020, 9, 14.	7.7	63
32	Zinc nanoparticles in solution by laser ablation technique. <i>Bulletin of Materials Science</i> , 2007, 30, 291-293.	0.8	61
33	Laser Irradiance and Wavelength-Dependent Compositional Evolution of Inorganic ZnO and ZnOOH/Organic SDS Nanocomposite Material. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2812-2819.	1.5	60
34	Water sprints uphill on glass. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	59
35	Zn/ZnO core/shell nanoparticles synthesized by laser ablation in aqueous environment: Optical and structural characterizations. <i>Bulletin of Materials Science</i> , 2010, 33, 21-26.	0.8	56
36	Reflection of femtosecond laser light in multipulse ablation of metals. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	54

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37	Bioinspired Hierarchical Surfaces Fabricated by Femtosecond Laser and Hydrothermal Method for Water Harvesting. <i>Langmuir</i> , 2019, 35, 3562-3567.	1.6	54
38	All-optical XOR, NOR, and NAND logic functions with parallel semiconductor optical amplifier-based Mach-Zehnder interferometer modules. <i>Optics and Laser Technology</i> , 2018, 108, 426-433.	2.2	53
39	Design of Aluminum Bowtie Nanoantenna Array with Geometrical Control to Tune LSPR from UV to Near-IR for Optical Sensing. <i>Plasmonics</i> , 2020, 15, 609-621.	1.8	53
40	Enhanced energy coupling in femtosecond laser-metal interactions at high intensities. <i>Optics Express</i> , 2006, 14, 13113.	1.7	52
41	Design of Extremely Sensitive Refractive Index Sensors in Infrared for Blood Glucose Detection. <i>IEEE Sensors Journal</i> , 2020, 20, 4628-4634.	2.4	52
42	Ultrafast dynamics of femtosecond laser-induced nanostructure formation on metals. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	51
43	Plasmonic metasurfaces with 42.3% transmission efficiency in the visible. <i>Light: Science and Applications</i> , 2019, 8, 53.	7.7	51
44	Fano-resonant ultrathin film optical coatings. <i>Nature Nanotechnology</i> , 2021, 16, 440-446.	15.6	51
45	How To Obtain Six Different Superwettabilities on a Same Microstructured Pattern: Relationship between Various Superwettabilities in Different Solid/Liquid/Gas Systems. <i>Langmuir</i> , 2019, 35, 921-927.	1.6	48
46	Direct sunlight enabled photo-biochemical synthesis of silver nanoparticles and their Bactericidal Efficacy: Photon energy as key for size and distribution control. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 42-49.	1.7	47
47	Structural and compositional control in copper selenide nanocrystals for light-induced self-repairable electrodes. <i>Nano Energy</i> , 2018, 51, 774-785.	8.2	46
48	Rapid fabrication of anti-corrosion and self-healing superhydrophobic aluminum surfaces through environmentally friendly femtosecond laser processing. <i>Optics Express</i> , 2020, 28, 35636.	1.7	44
49	Modeling of residual thermal effect in femtosecond laser ablation of metals: role of a gas environment. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 883-889.	1.1	41
50	Charge Transfer Effects on Resonance-Enhanced Raman Scattering for Molecules Adsorbed on Single-Crystalline Perovskite. <i>ACS Photonics</i> , 2018, 5, 1619-1627.	3.2	41
51	Numerical study of ultrafast dynamics of femtosecond laser-induced periodic surface structure formation on noble metals. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	40
52	Synthesis of Titanium Dioxide Nanomaterial by Pulsed Laser Ablation in Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5367-5371.	0.9	40
53	Photothermal and Joule-Heating-Induced Negative-Photoconductivity-Based Ultraresponsive and Near-Zero-Biased Copper Selenide Photodetectors. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1169-1178.	2.0	40
54	Ag ₂ S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2019, 2, 2751-2759.	2.5	40

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55	Drop shaped zinc oxide quantum dots and their self-assembly into dendritic nanostructures: Liquid assisted pulsed laser ablation and characterizations. <i>Applied Surface Science</i> , 2012, 258, 2211-2218.	3.1	39
56	Laser ablative approach for the synthesis of cadmium hydroxide oxide nanocomposite. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1831-1838.	0.8	38
57	Superamphiphobic Surfaces with Controllable Adhesion Fabricated by Femtosecond Laser Bessel Beam on PTFE. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900550.	1.9	38
58	Comparative studies of Al ³⁺ ions and Al ₂ O ₃ nanoparticles on growth and metabolism of cabbage seedlings. <i>Journal of Biotechnology</i> , 2017, 254, 1-8.	1.9	36
59	Exogenous application of phytosynthesized nanoceria to alleviate ferulic acid stress in <i>Solanum lycopersicum</i> . <i>Scientia Horticulturae</i> , 2017, 214, 158-164.	1.7	35
60	Superhydrophobic Al Surfaces with Properties of Anticorrosion and Reparability. <i>ACS Omega</i> , 2018, 3, 17425-17429.	1.6	35
61	Enhanced efficiency of solar-driven thermoelectric generator with femtosecond laser-textured metals. <i>Optics Express</i> , 2011, 19, A824.	1.7	34
62	Formation of controllable 1D and 2D periodic surface structures on cobalt by femtosecond double pulse laser irradiation. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	33
63	Hydrogen evolution reaction from bare and surface-functionalized few-layered MoS ₂ nanosheets in acidic and alkaline electrolytes. <i>Materials Today Chemistry</i> , 2019, 14, 100207.	1.7	33
64	Coherent ultrafast MI-FROG spectroscopy of optical field ionization in molecular H ₂ , N ₂ , and O ₂ . <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001, 7, 579-591.	1.9	31
65	Nanochemical effects in femtosecond laser ablation of metals. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	31
66	Hierarchical micro/nanostructured TiO ₂ /Ag substrates based on femtosecond laser structuring: A facile route for enhanced SERS performance and location predictability. <i>Applied Surface Science</i> , 2019, 478, 737-743.	3.1	31
67	Applications of Liquid Assisted Pulsed Laser Ablation Synthesized TiO ₂ Nanoparticles on Germination, Growth and Biochemical Parameters of <i>Brassica Oleracea</i> var. <i>Capitata</i> . <i>Science of Advanced Materials</i> , 2012, 4, 522-531.	0.1	31
68	Metallic Light Absorbers Produced by Femtosecond Laser Pulses. <i>Advances in Mechanical Engineering</i> , 2010, 2, 452749.	0.8	30
69	Nanomaterials and Nanopatterns Based on Laser Processing: A Brief Review on Current State of Art. <i>Science of Advanced Materials</i> , 2012, 4, 368-390.	0.1	30
70	Nanoarchitectural Evolution from Laser-Produced Colloidal Solution: Growth of Various Complex Cadmium Hydroxide Architectures from Simple Particles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9277-9289.	1.5	29
71	Direct fabricating large-area nanotriangle structure arrays on tungsten surface by nonlinear lithography of two femtosecond laser beams. <i>Optics Express</i> , 2018, 26, 11718.	1.7	29
72	Maskless formation of uniform subwavelength periodic surface structures by double temporally-delayed femtosecond laser beams. <i>Applied Surface Science</i> , 2019, 471, 516-520.	3.1	29

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73	Effect of oxygen injection on the size and compositional evolution of ZnO/Zn(OH) ₂ nanocomposite synthesized by pulsed laser ablation in distilled water. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4143-4152.	0.8	28
74	Highly Floatable Superhydrophobic Metallic Assembly for Aquatic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48512-48517.	4.0	28
75	Femtosecond laser one-step direct-writing cylindrical microlens array on fused silica. <i>Optics Letters</i> , 2017, 42, 2358.	1.7	27
76	2â€Tb/s all-optical gates based on two-photon absorption in quantum dot semiconductor optical amplifiers. <i>Optics and Laser Technology</i> , 2019, 112, 442-451.	2.2	27
77	Formation of solar absorber surface on nickel with femtosecond laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 299-303.	1.1	26
78	Power and Time Dependent Microwave Assisted Fabrication of Silver Nanoparticles Decorated Cotton (SNDC) Fibers for Bacterial Decontamination. <i>Frontiers in Microbiology</i> , 2017, 08, 330.	1.5	26
79	Femtosecond laser-induced blazed periodic grooves on metals. <i>Optics Letters</i> , 2011, 36, 2575.	1.7	25
80	Making human enamel and dentin surfaces superwetting for enhanced adhesion. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	24
81	1ÂTb/s all-optical XOR and AND gates using quantum-dot semiconductor optical amplifier-based turbo-switched Machâ€Zehnder interferometer. <i>Journal of Computational Electronics</i> , 2019, 18, 628-639.	1.3	24
82	Giant Nonlinear Optical Response in Triple Cation Halide Mixed Perovskite Films. <i>Advanced Optical Materials</i> , 2020, 8, 1901766.	3.6	24
83	Strong third-order optical nonlinearities of Ag nanoparticles synthesized by laser ablation of bulk silver in water and air. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	23
84	320ÂGb/s all-optical XOR gate using semiconductor optical amplifier-Machâ€Zehnder interferometer and delayed interferometer. <i>Photonic Network Communications</i> , 2019, 38, 177-184.	1.4	23
85	Femtosecond-Laser-Produced Underwater â€Superpolymphobicâ€Nanorippled Surfaces: Repelling Liquid Polymers in Water for Applications of Controlling Polymer Shape and Adhesion. <i>ACS Applied Nano Materials</i> , 2019, 2, 7362-7371.	2.4	22
86	Microfluidic Channels Fabrication Based on Underwater Superpolymphobic Microgrooves Produced by Femtosecond Laser Direct Writing. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2819-2825.	2.0	21
87	Pulse Duration and Wavelength Effects of Laser Ablation on the Oxidation, Hydrolysis, and Aging of Aluminum Nanoparticles in Water. <i>Nanomaterials</i> , 2019, 9, 767.	1.9	21
88	Femtosecond Laser-Structured Underwater â€Superpolymphobicâ€Surfaces. <i>Langmuir</i> , 2019, 35, 9318-9322.	1.6	21
89	Boosting Perovskite Photodetector Performance in NIR Using Plasmonic Bowtie Nanoantenna Arrays. <i>Small</i> , 2020, 16, e2001417.	5.2	21
90	Multipronged heat-exchanger based on femtosecond laser-nano/microstructured Aluminum for thermoelectric heat scavengers. <i>Nano Energy</i> , 2020, 75, 104987.	8.2	21

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91	Femtosecond laser fabrication of square pillars integrated Siberian-Cocklebur-like microstructures surface for anti-icing. <i>Materials and Design</i> , 2021, 204, 109689.	3.3	21
92	Phase change material-based nano-cavity as an efficient optical modulator. <i>Nanotechnology</i> , 2021, 32, 095207.	1.3	21
93	Shot-to-shot correlation of residual energy and optical absorptance in femtosecond laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 86, 235-241.	1.1	19
94	Ion flux enhancements and oscillations in spatially confined laser produced aluminum plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	19
95	Synthesis of Copper ²⁺ -Copper-Oxide Nanoparticles: Optical and Structural Characterizations. , 2009, , .		18
96	Reducing Adhesion for Dispensing Tiny Water/Oil Droplets and Gas Bubbles by Femtosecond Laser-Treated Needle Nozzles: Superhydrophobicity, Superoleophobicity, and Superaerophobicity. <i>ChemNanoMat</i> , 2019, 5, 241-249.	1.5	18
97	Femtosecond and picosecond laser fabrication for long-term superhydrophilic metal surfaces. <i>Optics and Laser Technology</i> , 2021, 143, 107241.	2.2	18
98	Manipulation of multiple periodic surface structures on metals induced by femtosecond lasers. <i>Applied Surface Science</i> , 2018, 454, 327-333.	3.1	17
99	Controlling periodic ripple microstructure formation on 4H-SiC crystal with three time-delayed femtosecond laser beams of different linear polarizations. <i>Optics Express</i> , 2017, 25, 5156.	1.7	16
100	Dielectric Nanoaperture Metasurfaces in Silicon Waveguides for Efficient and Broadband Mode Conversion with an Ultrasmall Footprint. <i>Advanced Optical Materials</i> , 2020, 8, 2000529.	3.6	16
101	Dynamic control of spontaneous emission rate using tunable hyperbolic metamaterials. <i>Optics Letters</i> , 2020, 45, 1671.	1.7	16
102	All-optical logic gates using dielectric-loaded waveguides with quasi-rhombus metasurfaces. <i>Optics Letters</i> , 2020, 45, 3769.	1.7	16
103	Colorful multifunctional surfaces produced by femtosecond laser pulses. <i>Optical Materials Express</i> , 2019, 9, 1033.	1.6	16
104	SERS study on the synergistic effects of electric field enhancement and charge transfer in an Ag ₂ S quantum dots/plasmonic bowtie nanoantenna composite system. <i>Photonics Research</i> , 2020, 8, 548.	3.4	16
105	Femtosecond laser surface structuring of biocompatible metals. , 2009, , .		15
106	Room temperature ferromagnetism in liquid-phase pulsed laser ablation synthesized nanoparticles of nonmagnetic oxides. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	15
107	Femtosecond laser eraser for controllable removing periodic microstructures on Fe-based metallic glass surfaces. <i>Optics Express</i> , 2018, 26, 5102.	1.7	15
108	Effect of Ag ₂ S Nanocrystals/Reduced Graphene Oxide Interface on Hydrogen Evolution Reaction. <i>Catalysts</i> , 2020, 10, 948.	1.6	15

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109	Comparative study of femtosecond laser-induced structural colorization in water and air. <i>Nanoscale Advances</i> , 2020, 2, 2958-2967.	2.2	15
110	All-optical AND, NOR, and XNOR logic gates using semiconductor optical amplifiers-based Mach-Zehnder interferometer followed by a delayed interferometer. <i>Optik</i> , 2021, 225, 165901.	1.4	15
111	Significantly enhanced electrocatalytic activity of copper for hydrogen evolution reaction through femtosecond laser blackening. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 10783-10788.	3.8	15
112	Reconfigurable metasurface-based 1 Å– 2 waveguide switch. <i>Photonics Research</i> , 2021, 9, 2104.	3.4	15
113	Zinc Oxide Nanostructures; Synthesis, Characterizations and Device Applications. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013, 3, 283-310.	0.3	15
114	Generation of continuously rotating polarization by combining cross-polarizations and its application in surface structuring. <i>Optics Letters</i> , 2017, 42, 2870.	1.7	14
115	Complete characterization of ultrashort optical pulses with a phase-shifting wedged reversal shearing interferometer. <i>Light: Science and Applications</i> , 2018, 7, 30.	7.7	14
116	Observation of negative persistent photoconductivity in ZnS/PVA nanocomposite materials. <i>Journal of Alloys and Compounds</i> , 2014, 588, 440-448.	2.8	13
117	Synthesis, Characterization and Application of Ruthenium Oxide Nanoparticles on Growth and Metabolism of <i>Brassica oleracea L.</i> <i>Advanced Science Letters</i> , 2015, 21, 2635-2640.	0.2	13
118	Laser ablation-induced synthesis and nonlinear optical characterization of titanium and cobalt nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	13
119	Maskless laser nano-lithography of glass through sequential activation of multi-threshold ablation. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	13
120	1-D Metal-Dielectric-Metal Grating Structure as an Ultra-Narrowband Perfect Plasmonic Absorber in the Visible and Its Application in Glucose Detection. <i>Plasmonics</i> , 2020, 15, 1339-1350.	1.8	13
121	Single-Step and Sustainable Fabrication of Ni(OH) ₂ /Ni Foam Water Splitting Catalysts via Electric Field Assisted Pulsed Laser Ablation in Liquid. <i>ChemElectroChem</i> , 2021, 8, 209-217.	1.7	13
122	Phase change material based hot electron photodetection. <i>Nanoscale</i> , 2021, 13, 1311-1317.	2.8	13
123	High stability breakdown of noble gases with femtosecond laser pulses. <i>Optics Letters</i> , 2012, 37, 599.	1.7	12
124	Liquid-Assisted Pulsed Laser Ablation Synthesis of Titanium Ferrite Nanomaterials. <i>Materials Focus</i> , 2015, 4, 327-332.	0.4	12
125	Laser synthesized magnetically recyclable titanium ferrite nanoparticles for photodegradation of dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15380-15386.	1.1	12
126	Microwave assisted scalable synthesis of titanium ferrite nanomaterials. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	12

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127	Metalâ€“Dielectricâ€“Metal Metamaterial-Based Hydrogen Sensors in the Water Transmission Window. , 2020, 4, 1-4.		12
128	Reflective semiconductor optical amplifiers-based all-optical NOR and XNOR logic gates at 120 Gb/s. Journal of Modern Optics, 2020, 67, 1424-1435.	0.6	12
129	Liquid-assisted Pulsed Laser Ablation Synthesized Titanium Ferrite Nanoparticles: Structural, Optical And Magnetic Properties. Advanced Materials Letters, 2015, 6, 1066-1072.	0.3	12
130	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.	1.9	11
131	Noncollinear excitation of surface plasmons for triangular structure formation on Cr surfaces by femtosecond lasers. Applied Surface Science, 2020, 507, 144932.	3.1	11
132	Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten. Optical Materials Express, 2019, 9, 3183.	1.6	11
133	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.	2.9	11
134	Nonlinear optics on nano/micro-hierarchical structures on metals: focus on symmetric and plasmonic effects. Nano Reviews & Experiments, 2017, 8, 1339545.	3.6	10
135	Quasi-rhombus metasurfaces as multimode interference couplers for controlling the propagation of modes in dielectric-loaded waveguides. Optics Letters, 2019, 44, 1654.	1.7	10
136	Ni-based overall water splitting electrocatalysts prepared via laser-ablation-in-liquids combined with electrophoretic deposition. Materials Today Chemistry, 2022, 23, 100691.	1.7	10
137	Laser Induced Molecular Spectroscopy of Zn[sub 2] Molecule. , 2008, , .		9
138	Formation of Subwavelength Periodic Triangular Arrays on Tungsten through Double-Pulsed Femtosecond Laser Irradiation. Materials, 2018, 11, 2380.	1.3	9
139	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.	1.1	9
140	Formation of uniform two-dimensional subwavelength structures by delayed triple femtosecond laser pulse irradiation. Optics Letters, 2019, 44, 2278.	1.7	9
141	Green synthesis of Cu2O hollow microspheres. Advanced Materials Proceedings, 2021, 2, 132-138.	0.2	9
142	Ablated nickel nanoparticles: third harmonic generation and optical nonlinearities. Journal of Optics (United Kingdom), 2018, 20, 125502.	1.0	8
143	Influence of gadolinium doping on low- and high-order nonlinear optical properties and transient absorption dynamics of ZnO nanomaterials. Optical Materials, 2019, 95, 109241.	1.7	8
144	Two-photon absorption in quantum dot semiconductor optical amplifiers-based all-optical XOR gate at 2ÂTb/s. Optical and Quantum Electronics, 2019, 51, 1.	1.5	8

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145	Probing Laser Plasma Dynamics Using High-Order Harmonics Generation in Carbon-Containing Nanomaterials. Applied Sciences (Switzerland), 2021, 11, 2143.	1.3	8
146	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.	1.4	8
147	Rotationally symmetric colorization of metal surfaces through omnidirectional femtosecond laser-induced periodic surface structures. Optics Letters, 2020, 45, 3414.	1.7	8
148	Fabrication of Superhydrophobic Gully-Structured Surfaces by Femtosecond Laser and Imprinting for High-Efficiency Self-Cleaning Rain Collection. Langmuir, 2022, 38, 2720-2728.	1.6	8
149	Spectral investigation of higher-order Kerr effects in a tight-focusing geometry. Optics Express, 2013, 21, 29401.	1.7	7
150	Numerical investigation of an all-optical logic OR gate at 80ÅGb/s with a dual pumpâ€“probe semiconductor optical amplifier (SOA)-assisted Machâ€“Zehnder interferometer (MZI). Journal of Computational Electronics, 2019, 18, 271-278.	1.3	7
151	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.	3.1	6
152	Femtosecond laserâ€“produced optical absorbers for solarâ€“thermal energy harvesting. EcoMat, 2022, 4, .	6.8	6
153	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.	2.3	5
154	Single-step maskless nano-lithography on glass by femtosecond laser processing. Journal of Applied Physics, 2020, 127, .	1.1	5
155	Generalized emptying criteria for finite-lengthed capillary. Physical Review Fluids, 2020, 5, .	1.0	5
156	Femtosecond laser fabrication and chemical coating of anti-corrosion ethylene-glycol repellent aluminum surfaces. Materials Letters, 2022, 323, 132562.	1.3	5
157	Third-order nonlinear optical effects of silver nanoparticles and third harmonic generation from their plasma plumes. Optik, 2021, 245, 167680.	1.4	4
158	Creation of enhanced transmission for clear and frosted glass through facile surface texturing. Optical Materials Express, 2019, 9, 2946.	1.6	4
159	Cadmium Oxide Nanostructures in Water; Synthesis, Characterizations & Optical Properties. , 2009, , .		3
160	Synthesis of Nickel Nanomaterial by Pulsed Laser Ablation in Liquid Medium and its Characterization. , 2009, , .		3
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