

Subhash C Singh

List of Publications by Year in descending order

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180
papers

9,479
citations

50276

46
h-index

42399

92
g-index

188
all docs

188
docs citations

188
times ranked

7729
citing authors

#	ARTICLE	IF	CITATIONS
1	Ni-based overall water splitting electrocatalysts prepared via laser-ablation-in-liquids combined with electrophoretic deposition. <i>Materials Today Chemistry</i> , 2022, 23, 100691.	3.5	10
2	Fabrication of Superhydrophobic Gully-Structured Surfaces by Femtosecond Laser and Imprinting for High-Efficiency Self-Cleaning Rain Collection. <i>Langmuir</i> , 2022, 38, 2720-2728.	3.5	8
3	Calcination Temperature Induced Structural, Optical and Magnetic Transformations in Titanium Ferrite Nanoparticles. <i>Reactions</i> , 2022, 3, 224-232.	2.1	0
4	Femtosecond laser-produced optical absorbers for solar-thermal energy harvesting. <i>EcoMat</i> , 2022, 4, .	11.9	6
5	Switchable Gratings for Ultracompact and Ultrahigh Modulation Depth Plasmonic Switches. <i>Plasmonics</i> , 2022, 17, 1361-1368.	3.4	1
6	Femtosecond laser fabrication and chemical coating of anti-corrosion ethylene-glycol repellent aluminum surfaces. <i>Materials Letters</i> , 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. <i>Optik</i> , 2021, 225, 165901.	2.9	15
8	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.	3.4	13
9	Fano-resonant ultrathin film optical coatings. <i>Nature Nanotechnology</i> , 2021, 16, 440-446.	31.5	51
10	Probing Laser Plasma Dynamics Using High-Order Harmonics Generation in Carbon-Containing Nanomaterials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2143.	2.5	8
11	Ultrabroadband, compact, polarization independent and efficient metasurface-based power splitter on lithium niobate waveguides. <i>Optics Express</i> , 2021, 29, 8160.	3.4	2
12	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.	7.1	15
13	Target phase-induced compositional control in liquid-phase pulsed laser ablation produced titanium ferrite nanomaterials. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	0
14	Femtosecond laser fabrication of square pillars integrated Siberian-Cocklebur-like microstructures surface for anti-icing. <i>Materials and Design</i> , 2021, 204, 109689.	7.0	21
15	Reconfigurable metasurface-based 1 Å– 2 waveguide switch. <i>Photonics Research</i> , 2021, 9, 2104.	7.0	15
16	Femtosecond and picosecond laser fabrication for long-term superhydrophilic metal surfaces. <i>Optics and Laser Technology</i> , 2021, 143, 107241.	4.6	18
17	Third-order nonlinear optical effects of silver nanoparticles and third harmonic generation from their plasma plumes. <i>Optik</i> , 2021, 245, 167680.	2.9	4
18	Controlling Voronoi partitions on femtosecond-laser-superheated metal surfaces. <i>Applied Surface Science</i> , 2021, 568, 150913.	6.1	1

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19	Phase change material based hot electron photodetection. <i>Nanoscale</i> , 2021, 13, 1311-1317.	5.6	13
20	Phase change material-based nano-cavity as an efficient optical modulator. <i>Nanotechnology</i> , 2021, 32, 095207.	2.6	21
21	Green synthesis of Cu ₂ O hollow microspheres. <i>Advanced Materials Proceedings</i> , 2021, 2, 132-138.	0.2	9
22	Multifractal characterization of femtosecond laser-induced herringbone patterns. <i>JPhys Photonics</i> , 2021, 3, 015001.	4.6	0
23	Imaging nanostructure phase transition through ultrafast far-field optical ultramicroscopy. <i>Cell Reports Physical Science</i> , 2021, 2, 100651.	5.6	1
24	Formation, aging and self-assembly of regular nanostructures from laser ablation of indium and zinc in water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 584, 124016.	4.7	5
25	Creating superhydrophobic and antibacterial surfaces on gold by femtosecond laser pulses. <i>Applied Surface Science</i> , 2020, 506, 144952.	6.1	102
26	Noncollinear excitation of surface plasmons for triangular structure formation on Cr surfaces by femtosecond lasers. <i>Applied Surface Science</i> , 2020, 507, 144932.	6.1	11
27	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.	3.4	53
28	Solar-trackable super-wicking black metal panel for photothermal water sanitation. <i>Nature Sustainability</i> , 2020, 3, 938-946.	23.7	139
29	Effect of Ag ₂ S Nanocrystals/Reduced Graphene Oxide Interface on Hydrogen Evolution Reaction. <i>Catalysts</i> , 2020, 10, 948.	3.5	15
30	Metalâ€œDielectricâ€œMetal Metamaterial-Based Hydrogen Sensors in the Water Transmission Window. , 2020, 4, 1-4.		12
31	Boosting Perovskite Photodetector Performance in NIR Using Plasmonic Bowtie Nanoantenna Arrays. <i>Small</i> , 2020, 16, e2001417.	10.0	21
32	Multipronged heat-exchanger based on femtosecond laser-nano/microstructured Aluminum for thermoelectric heat scavengers. <i>Nano Energy</i> , 2020, 75, 104987.	16.0	21
33	Comparative study of femtosecond laser-induced structural colorization in water and air. <i>Nanoscale Advances</i> , 2020, 2, 2958-2967.	4.6	15
34	Ultra-smooth ultrathin silver films deposited on acid treated Silicon substrates. <i>Nano Express</i> , 2020, 1, 020012.	2.4	0
35	Giant Nonlinear Optical Response in Triple Cation Halide Mixed Perovskite Films. <i>Advanced Optical Materials</i> , 2020, 8, 1901766.	7.3	24
36	Design of Extremely Sensitive Refractive Index Sensors in Infrared for Blood Glucose Detection. <i>IEEE Sensors Journal</i> , 2020, 20, 4628-4634.	4.7	52

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37	Spectral absorption control of femtosecond laser-treated metals and application in solar-thermal devices. <i>Light: Science and Applications</i> , 2020, 9, 14.	16.6	63
38	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.	3.4	13
39	Single-step maskless nano-lithography on glass by femtosecond laser processing. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	5
40	High-efficiency non-diffractive generator of arbitrary vectorial optical fields with minimal optical elements. <i>Optics Communications</i> , 2020, 463, 125443.	2.1	1
41	Dielectric Nanoaperture Metasurfaces in Silicon Waveguides for Efficient and Broadband Mode Conversion with an Ultrasmall Footprint. <i>Advanced Optical Materials</i> , 2020, 8, 2000529.	7.3	16
42	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. <i>Optik</i> , 2020, 218, 164879.	2.9	8
43	Reflective semiconductor optical amplifiers-based all-optical NOR and XNOR logic gates at 120 Gb/s. <i>Journal of Modern Optics</i> , 2020, 67, 1424-1435.	1.3	12
44	Generalized emptying criteria for finite-lengthed capillary. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	5
45	Rapid fabrication of anti-corrosion and self-healing superhydrophobic aluminum surfaces through environmentally friendly femtosecond laser processing. <i>Optics Express</i> , 2020, 28, 35636.	3.4	44
46	Dynamic control of spontaneous emission rate using tunable hyperbolic metamaterials. <i>Optics Letters</i> , 2020, 45, 1671.	3.3	16
47	Rotationally symmetric colorization of metal surfaces through omnidirectional femtosecond laser-induced periodic surface structures. <i>Optics Letters</i> , 2020, 45, 3414.	3.3	8
48	All-optical logic gates using dielectric-loaded waveguides with quasi-rhombus metasurfaces. <i>Optics Letters</i> , 2020, 45, 3769.	3.3	16
49	Plasmonic analogue of geometric diodes realizing asymmetric optical transmission. <i>Optics Letters</i> , 2020, 45, 3937.	3.3	2
50	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.	7.0	16
51	Simultaneous implementation of antireflection and antitransmission through multipolar interference in plasmonic metasurfaces and applications in optical absorbers and broadband polarizers. <i>Nanophotonics</i> , 2020, 9, 4529-4538.	6.0	11
52	Formation of controllable 1D and 2D periodic surface structures on cobalt by femtosecond double pulse laser irradiation. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	33
53	Influence of gadolinium doping on low- and high-order nonlinear optical properties and transient absorption dynamics of ZnO nanomaterials. <i>Optical Materials</i> , 2019, 95, 109241.	3.6	8
54	Creating Superhydrophobic Polymer Surfaces with Superstrong Resistance to Harsh Cleaning and Mechanical Abrasion Fabricated by Scalable One-Step Thermal Imprinting. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900240.	3.7	11

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55	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.	4.3	40
56	One-step fabrication of bi- and quad-directional femtosecond laser-induced periodic surface structures on metal with a depolarizer. <i>Applied Surface Science</i> , 2019, 493, 231-238.	6.1	6
57	Highly Floatable Superhydrophobic Metallic Assembly for Aquatic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48512-48517.	8.0	28
58	Femtosecond-Laser-Produced Underwater "Superpolymphobic" 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.	5.0	22
59	Enhancing thermoelectric output power via radiative cooling with nanoporous alumina. <i>Nano Energy</i> , 2019, 65, 104060.	16.0	70
60	Structural variations during aging of the particles synthesized by laser ablation of copper in water. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	9
61	Microfluidic Channels Fabrication Based on Underwater Superpolymphobic Microgrooves Produced by Femtosecond Laser Direct Writing. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2819-2825.	4.4	21
62	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.	6.1	31
63	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.	8.0	64
64	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.	4.1	21
65	Femtosecond Laser-Structured Underwater "Superpolymphobic" Surfaces. <i>Langmuir</i> , 2019, 35, 9318-9322.	3.5	21
66	Superamphiphobic Surfaces with Controllable Adhesion Fabricated by Femtosecond Laser Bessel Beam on PTFE. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900550.	3.7	38
67	Plasmonic metasurfaces with 42.3% transmission efficiency in the visible. <i>Light: Science and Applications</i> , 2019, 8, 53.	16.6	51
68	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.	3.6	89
69	Ag ₂ S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2019, 2, 2751-2759.	5.1	40
70	320 Gb/s all-optical XOR gate using semiconductor optical amplifier-Mach-Zehnder interferometer and delayed interferometer. <i>Photonic Network Communications</i> , 2019, 38, 177-184.	2.7	23
71	Maskless laser nano-lithography of glass through sequential activation of multi-threshold ablation. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	13
72	1 Tb/s all-optical XOR and AND gates using quantum-dot semiconductor optical amplifier-based turbo-switched Mach-Zehnder interferometer. <i>Journal of Computational Electronics</i> , 2019, 18, 628-639.	2.5	24

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73	Two-photon absorption in quantum dot semiconductor optical amplifiers-based all-optical XOR gate at 2ÅTb/s. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	8
74	Bioinspired Hierarchical Surfaces Fabricated by Femtosecond Laser and Hydrothermal Method for Water Harvesting. <i>Langmuir</i> , 2019, 35, 3562-3567.	3.5	54
75	Hydrogen evolution reaction from bare and surface-functionalized few-layered MoS2 nanosheets in acidic and alkaline electrolytes. <i>Materials Today Chemistry</i> , 2019, 14, 100207.	3.5	33
76	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). <i>Journal of Computational Electronics</i> , 2019, 18, 271-278.	2.5	7
77	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.	3.5	48
78	Maskless formation of uniform subwavelength periodic surface structures by double temporally-delayed femtosecond laser beams. <i>Applied Surface Science</i> , 2019, 471, 516-520.	6.1	29
79	Reducing Adhesion for Dispensing Tiny Water/Oil Droplets and Gas Bubbles by Femtosecond Laserâ€“treated Needle Nozzles: Superhydrophobicity, Superoleophobicity, and Superaerophobicity. <i>ChemNanoMat</i> , 2019, 5, 241-249.	2.8	18
80	2ÅTb/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.	4.6	27
81	Quasi-rhombus metasurfaces as multimode interference couplers for controlling the propagation of modes in dielectric-loaded waveguides. <i>Optics Letters</i> , 2019, 44, 1654.	3.3	10
82	Formation of uniform two-dimensional subwavelength structures by delayed triple femtosecond laser pulse irradiation. <i>Optics Letters</i> , 2019, 44, 2278.	3.3	9
83	Colorful multifunctional surfaces produced by femtosecond laser pulses. <i>Optical Materials Express</i> , 2019, 9, 1033.	3.0	16
84	Creation of enhanced transmission for clear and frosted glass through facile surface texturing. <i>Optical Materials Express</i> , 2019, 9, 2946.	3.0	4
85	Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten. <i>Optical Materials Express</i> , 2019, 9, 3183.	3.0	11
86	Charge Transfer Effects on Resonance-Enhanced Raman Scattering for Molecules Adsorbed on Single-Crystalline Perovskite. <i>ACS Photonics</i> , 2018, 5, 1619-1627.	6.6	41
87	Microwave assisted scalable synthesis of titanium ferrite nanomaterials. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	12
88	Superhydrophobic Al Surfaces with Properties of Anticorrosion and Reparability. <i>ACS Omega</i> , 2018, 3, 17425-17429.	3.5	35
89	Formation of Subwavelength Periodic Triangular Arrays on Tungsten through Double-Pulsed Femtosecond Laser Irradiation. <i>Materials</i> , 2018, 11, 2380.	2.9	9
90	Ablated nickel nanoparticles: third harmonic generation and optical nonlinearities. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 125502.	2.2	8

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91	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.	2.3	23
92	Laser ablation-induced synthesis and nonlinear optical characterization of titanium and cobalt nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	13
93	Complete characterization of ultrashort optical pulses with a phase-shifting wedged reversal shearing interferometer. <i>Light: Science and Applications</i> , 2018, 7, 30.	16.6	14
94	Manipulation of multiple periodic surface structures on metals induced by femtosecond lasers. <i>Applied Surface Science</i> , 2018, 454, 327-333.	6.1	17
95	Ultrafast microscopy in resolving femtosecond laser-induced surface structuring. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08PF04.	1.5	1
96	Femtosecond laser eraser for controllable removing periodic microstructures on Fe-based metallic glass surfaces. <i>Optics Express</i> , 2018, 26, 5102.	3.4	15
97	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.	3.4	29
98	Structural and compositional control in copper selenide nanocrystals for light-induced self-repairable electrodes. <i>Nano Energy</i> , 2018, 51, 774-785.	16.0	46
99	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.	4.6	53
100	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.	3.8	47
101	Theoretical Implementation of All-Optical XOR Gate at 160 Gb/s Using Semiconductor Optical Amplifiers-Based Turbo-Switched Mach-Zehnder Interferometer. <i>Journal of Advanced Optics and Photonics</i> , 2018, 1, 263-278.	0.1	3
102	Exogenous application of phytosynthesized nanoceria to alleviate ferulic acid stress in <i>Solanum lycopersicum</i> . <i>Scientia Horticulturae</i> , 2017, 214, 158-164.	3.6	35
103	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.	3.8	36
104	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.	16.6	104
105	Laser synthesized magnetically recyclable titanium ferrite nanoparticles for photodegradation of dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15380-15386.	2.2	12
106	Nonlinear optics on nano/micro-hierarchical structures on metals: focus on symmetric and plasmonic effects. <i>Nano Reviews & Experiments</i> , 2017, 8, 1339545.	3.7	10
107	Electron kinetic energy and plasma emission diagnosis from femtosecond laser produced air plasmas. <i>Physics of Plasmas</i> , 2017, 24, 072101.	1.9	2
108	Generation of continuously rotating polarization by combining cross-polarizations and its application in surface structuring. <i>Optics Letters</i> , 2017, 42, 2870.	3.3	14

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109	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.	3.4	16
110	Femtosecond laser one-step direct-writing cylindrical microlens array on fused silica. <i>Optics Letters</i> , 2017, 42, 2358.	3.3	27
111	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.	3.5	26
112	Green synthesis of nano zinc oxide and evaluation of its impact on germination and metabolic activity of <i>Solanum lycopersicum</i> . <i>Journal of Biotechnology</i> , 2016, 233, 84-94.	3.8	125
113	Green synthesis of nanoparticles and its potential application. <i>Biotechnology Letters</i> , 2016, 38, 545-560.	2.2	608
114	Room temperature ferromagnetism in liquid-phase pulsed laser ablation synthesized nanoparticles of nonmagnetic oxides. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	15
115	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
116	Multifunctional surfaces produced by femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	360
117	Liquid-Assisted Pulsed Laser Ablation Synthesis of Titanium Ferrite Nanomaterials. <i>Materials Focus</i> , 2015, 4, 327-332.	0.4	12
118	Liquid-assisted Pulsed Laser Ablation Synthesized Titanium Ferrite Nanoparticles: Structural, Optical And Magnetic Properties. <i>Advanced Materials Letters</i> , 2015, 6, 1066-1072.	0.6	12
119	Ion flux enhancements and oscillations in spatially confined laser produced aluminum plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	19
120	Observation of negative persistent photoconductivity in ZnS/PVA nanocomposite materials. <i>Journal of Alloys and Compounds</i> , 2014, 588, 440-448.	5.5	13
121	Nanochemical effects in femtosecond laser ablation of metals. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	31
122	Direct femtosecond laser surface nano/microstructuring and its applications. <i>Laser and Photonics Reviews</i> , 2013, 7, 385-407.	8.7	858
123	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
124	Spectral investigation of higher-order Kerr effects in a tight-focusing geometry. <i>Optics Express</i> , 2013, 21, 29401.	3.4	7
125	Zinc Oxide Nanostructures; Synthesis, Characterizations and Device Applications. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013, 3, 283-310.	0.3	15
126	Liquid-Assisted Pulsed Laser Ablation Synthesized ZnO/ZnDS Nanocomposite as an Efficient Green Phosphor Material. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013, 3, 365-372.	0.3	1

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127	High stability breakdown of noble gases with femtosecond laser pulses. <i>Optics Letters</i> , 2012, 37, 599.	3.3	12
128	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.	6.1	39
129	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. <i>Advanced Functional Materials</i> , 2012, 22, 1333-1353.	14.9	775
130	Formation of solar absorber surface on nickel with femtosecond laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 299-303.	2.3	26
131	A Special Issue on Nanomaterials by Laser Processing. <i>Science of Advanced Materials</i> , 2012, 4, 365-367.	0.7	1
132	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.	0.7	30
133	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.	0.7	31
134	Reflection of femtosecond laser light in multipulse ablation of metals. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	54
135	Making human enamel and dentin surfaces superwetting for enhanced adhesion. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	24
136	Enhanced efficiency of solar-driven thermoelectric generator with femtosecond laser-textured metals. <i>Optics Express</i> , 2011, 19, A824.	3.4	34
137	Femtosecond laser-induced blazed periodic grooves on metals. <i>Optics Letters</i> , 2011, 36, 2575.	3.3	25
138	Effect of aging on copper nanoparticles synthesized by pulsed laser ablation in water: structural and optical characterizations. <i>Bulletin of Materials Science</i> , 2011, 34, 1363-1369.	1.7	105
139	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.	1.9	28
140	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.	1.7	56
141	Optical Properties of Selenium Quantum Dots Produced with Laser Irradiation of Water Suspended Se Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17374-17384.	3.1	127
142	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.	3.1	29
143	Water sprints uphill on glass. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	59
144	Laser turns silicon superwicking. <i>Optics Express</i> , 2010, 18, 6455.	3.4	133

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145	Angular effects of nanostructure-covered femtosecond laser induced periodic surface structures on metals. Journal of Applied Physics, 2010, 108, .	2.5	78
146	Metallic Light Absorbers Produced by Femtosecond Laser Pulses. Advances in Mechanical Engineering, 2010, 2, 452749.	1.6	30
147	Synthesis of Titanium Dioxide Nanomaterial by Pulsed Laser Ablation in Water. Journal of Nanoscience and Nanotechnology, 2009, 9, 5367-5371.	0.9	40
148	Femtosecond laser surface structuring of biocompatible metals. , 2009, , .		15
149	SERS Study of Alizarin Red Dye on Colloidal Silver Nanoparticles. Materials Research Society Symposia Proceedings, 2009, 1241, 1.	0.1	0
150	Laser ablative approach for the synthesis of cadmium hydroxide-oxide nanocomposite. Journal of Nanoparticle Research, 2009, 11, 1831-1838.	1.9	38
151	Metal pumps liquid uphill. Applied Physics Letters, 2009, 94, .	3.3	127
152	Brighter Light Sources from Black Metal: Significant Increase in Emission Efficiency of Incandescent Light Sources. Physical Review Letters, 2009, 102, 234301.	7.8	177
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