Xianfan Xu

List of Publications by Year in descending order

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179 papers	16,958 citations	41258 49 h-index	14702 127 g-index
179 all docs	179 docs citations	179 times ranked	17846 citing authors

#	Article	IF	Citations
1	Phosphorene: An Unexplored 2D Semiconductor with a High Hole Mobility. ACS Nano, 2014, 8, 4033-4041.	7.3	5,474
2	Thermal Conductivity of Nanoparticle - Fluid Mixture. Journal of Thermophysics and Heat Transfer, 1999, 13, 474-480.	0.9	2,002
3	Black Phosphorusâ€“Monolayer MoS₂ van der Waals Heterojunction pâ€“n Diode. ACS Nano, 2014, 8, 8292-8299.	7.3	1,125
4	Field-effect transistors made from solution-grown two-dimensional tellurene. Nature Electronics, 2018, 1, 228-236.	13.1	591
5	Anisotropic in-plane thermal conductivity observed in few-layer black phosphorus. Nature Communications, 2015, 6, 8572.	5.8	520
6	Ultrasensitive mass sensing using mode localization in coupled microcantilevers. Applied Physics Letters, 2006, 88, 254102.	1.5	316
7	Rational Synthesis of Ultrathin n-Type Bi₂Te₃ Nanowires with Enhanced Thermoelectric Properties. Nano Letters, 2012, 12, 56-60.	4.5	276
8	One-Dimensional van der Waals Material Tellurium: Raman Spectroscopy under Strain and Magneto-Transport. Nano Letters, 2017, 17, 3965-3973.	4.5	272
9	Nanolithography Using High Transmission Nanoscale Bowtie Apertures. Nano Letters, 2006, 6, 361-364.	4.5	237
10	Controlled Growth of a Large-Size 2D Selenium Nanosheet and Its Electronic and Optoelectronic Applications. ACS Nano, 2017, 11, 10222-10229.	7.3	189
11	Auxetic Black Phosphorus: A 2D Material with Negative Poissonâ€™s Ratio. Nano Letters, 2016, 16, 6701-6708.	4.5	184
12	Plasmonic Resonance Enhanced Polarization-Sensitive Photodetection by Black Phosphorus in Near Infrared. ACS Nano, 2018, 12, 4861-4867.	7.3	158
13	Increased real contact in thermal interfaces: A carbon nanotube/foil material. Applied Physics Letters, 2007, 90, 093513.	1.5	144
14	Thermoelastic wave induced by pulsed laser heating. Applied Physics A: Materials Science and Processing, 2001, 73, 107-114.	1.1	131
15	Obtaining super resolution light spot using surface plasmon assisted sharp ridge nanoaperture. Applied Physics Letters, 2005, 86, 111106.	1.5	131
16	Far-field imaging of non-fluorescent species with subdiffraction resolution. Nature Photonics, 2013, 7, 449-453.	15.6	131
17	Thermoelectric Generators for Automotive Waste Heat Recovery Systems Part I: Numerical Modeling and Baseline Model Analysis. Journal of Electronic Materials, 2013, 42, 665-674.	1.0	129
18	Plasmonic near-field transducer for heat-assisted magnetic recording. Nanophotonics, 2014, 3, 141-155.	2.9	128

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19	HEAT TRANSFER IN FEMTOSECOND LASER PROCESSING OF METAL. Numerical Heat Transfer; Part A: Applications, 2003, 44, 219-232.	1.2	126
20	Raman response and transport properties of tellurium atomic chains encapsulated in nanotubes. Nature Electronics, 2020, 3, 141-147.	13.1	126
21	Generalized theory of the photoacoustic effect in a multilayer material. Journal of Applied Physics, 1999, 86, 3953-3958.	1.1	121
22	Explosive phase transformation in excimer laser ablation. Applied Surface Science, 1998, 127-129, 111-116.	3.1	115
23	Finitte-Difference Time-Domain Studies on Optical Transmission through Planar Nano-Apertures in a Metal Film. Japanese Journal of Applied Physics, 2004, 43, 407-417.	0.8	111
24	Enhanced optical near field from a bowtie aperture. Applied Physics Letters, 2006, 88, 153110.	1.5	111
25	Femtosecond laser absorption in fused silica: Numerical and experimental investigation. Physical Review B, 2005, 72, .	1.1	110
26	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. Nanotechnology, 2010, 21, 445705.	1.3	95
27	Photo-Acoustic Measurement of Thermal Conductivity of Thin Films and Bulk Materials. Journal of Heat Transfer, 2001, 123, 138-144.	1.2	88
28	THERMOELASTIC WAVE IN METAL INDUCED BY ULTRAFAST LASER PULSES. Journal of Thermal Stresses, 2002, 25, 457-473.	1.1	85
29	Plasmonic effects in near-field optical transmission enhancement through a single bowtie-shaped aperture. Applied Physics B: Lasers and Optics, 2006, 84, 3-9.	1.1	82
30	Non-Equilibrium Phase Change in Metal Induced by Nanosecond Pulsed Laser Irradiation. Journal of Heat Transfer, 2002, 124, 293-298.	1.2	81
31	Thermoelectric Performance of 2D Tellurium with Accumulation Contacts. Nano Letters, 2019, 19, 1955-1962.	4.5	81
32	Observation of Optical and Electrical In-Plane Anisotropy in High-Mobility Few-Layer ZrTe₅. Nano Letters, 2016, 16, 7364-7369.	4.5	80
33	Molecular Dynamics Simulation of Heat Transfer and Phase Change During Laser Material Interaction. Journal of Heat Transfer, 2002, 124, 265-274.	1.2	78
34	Anisotropic Effects on the Thermoelectric Properties of Highly Oriented Electrodeposited Bi2Te3 Films. Scientific Reports, 2016, 6, 19129.	1.6	76
35	High transmission nanoscale bowtie-shaped aperture probe for near-field optical imaging. Applied Physics Letters, 2007, 90, 261105.	1.5	75
36	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. Journal of Heat Transfer, 2012, 134, .	1.2	73

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37	Thermoelectric Generators for Automotive Waste Heat Recovery Systems Part II: Parametric Evaluation and Topological Studies. Journal of Electronic Materials, 2013, 42, 944-955.	1.0	72
38	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. Nanotechnology, 2008, 19, 125703.	1.3	70
39	Phase explosion and its time lag in nanosecond laser ablation. Applied Surface Science, 2002, 197-198, 61-66.	3.1	68
40	Ultrafast double-pulse ablation of fused silica. Applied Physics Letters, 2005, 86, 151110.	1.5	68
41	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. Nanotechnology, 2007, 18, 385303.	1.3	60
42	Thermal conductivity of bismuth telluride nanowire array-epoxy composite. Applied Physics Letters, 2009, 94, .	1.5	60
43	Development of a biosensor based on laser-fabricatedpolymer microcantilevers. Applied Physics Letters, 2004, 85, 2423-2425.	1.5	59
44	Ultra-fast laser absorption and ablation dynamics in wide-band-gap dielectrics. Applied Physics A: Materials Science and Processing, 2005, 81, 1627-1632.	1.1	58
45	Rapid, continuous projection multi-photon 3D printing enabled by spatiotemporal focusing of femtosecond pulses. Light: Science and Applications, 2021, 10, 199.	7.7	57
46	Excimer laser fabrication of polymer microfluidic devices. Journal of Laser Applications, 2003, 15, 255-260.	0.8	54
47	Coupling of ultrafast laser energy to coherent phonons in bismuth. Applied Physics Letters, 2007, 90, 251111.	1.5	53
48	Parallel optical nanolithography using nanoscale bowtie aperture array. Optics Express, 2010, 18, 7369.	1.7	53
49	Molecular dynamics simulation of thermal and thermomechanical phenomena in picosecond laser material interaction. International Journal of Heat and Mass Transfer, 2003, 46, 45-53.	2.5	51
50	Laser direct synthesis of graphene on quartz. Carbon, 2013, 53, 374-379.	5.4	51
51	Thermoelectric properties of electrodeposited tellurium films and the sodium lignosulfonate effect. Electrochimica Acta, 2015, 169, 37-45.	2.6	51
52	Heat transfer and phase change during picosecond laser ablation of nickel. International Journal of Heat and Mass Transfer, 2002, 45, 3911-3918.	2.5	50
53	Ultrafast dynamics of photoexcited coherent phonon in Bi[sub 2]Te[sub 3] thin films. Applied Physics Letters, 2008, 92, 011108.	1.5	50
54	Experimental and 3D Finite Element Studies of CW Laser Forming of Thin Stainless Steel Sheets. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2001, 123, 66-73.	1.3	49

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55	Laser direct growth of graphene on silicon substrate. Applied Physics Letters, 2012, 100, 023110.	1.5	48
56	Reduction in coherent phonon lifetime in Bi2Te3/Sb2Te3 superlattices. Applied Physics Letters, 2008, 93, .	1.5	47
57	Mode-Wise Thermal Conductivity of Bismuth Telluride. Journal of Heat Transfer, 2013, 135, .	1.2	45
58	Molecular Dynamics Study of Phase Change Mechanisms During Femtosecond Laser Ablation. Journal of Heat Transfer, 2004, 126, 727-734.	1.2	43
59	Resonant Oscillation of Misch-Metal Atoms in Filled Skutterudites. Physical Review Letters, 2009, 102, 175508.	2.9	41
60	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 228-237.	1.4	40
61	Fabricating subwavelength dot-matrix surface structures of Molybdenum by transient correlated actions of two-color femtosecond laser beams. Optics Express, 2015, 23, 5357.	1.7	40
62	Ultrafast Spectroscopy of Electron-Phonon Coupling in Gold. Journal of Heat Transfer, 2014, 136, .	1.2	39
63	Anisotropic thermal conductivity in 2D tellurium. 2D Materials, 2020, 7, 015008.	2.0	39
64	Acoustic phonon scattering in Bi2Te3/Sb2Te3 superlattices. Applied Physics Letters, 2010, 97, .	1.5	37
65	Near-Field Thermal Radiation between Two Plates with Sub-10 nm Vacuum Separation. Nano Letters, 2020, 20, 6091-6096.	4.5	37
66	Contact optical nanolithography using nanoscale C-shaped apertures. Optics Express, 2006, 14, 9902.	1.7	35
67	Complementary bowtie aperture for localizing and enhancing optical magnetic field. Optics Letters, 2011, 36, 2764.	1.7	35
68	Mid-infrared ultrafast carrier dynamics in thin film black phosphorus. 2D Materials, 2017, 4, 021032.	2.0	35
69	Control of Current Saturation and Threshold Voltage Shift in Indium Oxide Nanowire Transistors with Femtosecond Laser Annealing. ACS Nano, 2011, 5, 1095-1101.	7.3	32
70	Measurement of solidâ€“liquid interface temperature during pulsed excimer laser melting of polycrystalline silicon films. Applied Physics Letters, 1994, 65, 1745-1747.	1.5	30
71	Extraordinary infrared transmission through a periodic bowtie aperture array. Optics Letters, 2010, 35, 992.	1.7	29
72	Minimum Thermal Conductivity in Weak Topological Insulators with Bismuthâ€Based Stack Structure. Advanced Functional Materials, 2016, 26, 5360-5367.	7.8	29

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73	Interface kinetics during pulsed laser ablation. Applied Physics A: Materials Science and Processing, 1999, 69, S869-S873.	1.1	28
74	Laser bending for high-precision curvature adjustment of microcantilevers. Applied Physics Letters, 2005, 86, 021114.	1.5	28
75	Three-dimensional mapping of optical near field of a nanoscale bowtie antenna. Optics Express, 2010, 18, 4961.	1.7	28
76	Improving near-field confinement of a bowtie aperture using surface plasmon polaritons. Applied Physics Letters, 2011, 98, 223106.	1.5	28
77	Measurement of In-Plane Thermal Conductivity of Ultrathin Films Using Micro-Raman Spectroscopy. Nanoscale and Microscale Thermophysical Engineering, 2014, 18, 183-193.	1.4	28
78	A regenerative concept for thermoelectric power generation. Applied Energy, 2017, 185, 119-125.	5.1	28
79	Thermoelectric Performance of Lead-Free Two-Dimensional Halide Perovskites Featuring Conjugated Ligands. Nano Letters, 2021, 21, 7839-7844.	4.5	28
80	Temporal profile of optical transmission probe for pulsedâ€laser heating of amorphous silicon films. Applied Physics Letters, 1992, 61, 749-751.	1.5	27
81	Nanolithography using high transmission nanoscale ridge aperture probe. Applied Physics A: Materials Science and Processing, 2008, 93, 881-884.	1.1	27
82	Optimization of Thermoelectric Components for Automobile Waste Heat Recovery Systems. Journal of Electronic Materials, 2015, 44, 3627-3636.	1.0	27
83	Sub-Diffraction Limited Writing based on Laser Induced Periodic Surface Structures (LIPSS). Scientific Reports, 2016, 6, 35035.	1.6	27
84	High Precision Microscale Bending by Pulsed and CW Lasers. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2003, 125, 512-518.	1.3	26
85	Ultrafast Surface State Spin-Carrier Dynamics in the Topological Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mrow> Physical Review Letters, 2018, 121, 026807.	2.9	26
86	Large Enhancement of Thermal Conductivity and Lorenz Number in Topological Insulator Thin Films. ACS Nano, 2018, 12, 1120-1127.	7.3	25
87	High efficiency excitation of plasmonic waveguides with vertically integrated resonant bowtie apertures. Optics Express, 2009, 17, 8036.	1.7	24
88	Nanoscale ridge aperture as near-field transducer for heat-assisted magnetic recording. Applied Optics, 2011, 50, G42.	2.1	24
89	Fabrication of silver nanostructures using femtosecond laser-induced photoreduction. Nanotechnology, 2017, 28, 505302.	1.3	24
90	Phase change phenomena during high power laser-materials interaction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 292, 162-168.	2.6	23

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91	Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. Journal of Physical Chemistry C, 2008, 112, 19727-19733.	1.5	23
92	Tailored thioxanthoneâ€based photoinitiators for twoâ€photonâ€controllable polymerization and nanolithographic printing. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1462-1475.	2.4	23
93	Assessment of Thermal Properties via Nanosecond Thermoreflectance Method. Nanoscale and Microscale Thermophysical Engineering, 2015, 19, 245-257.	1.4	22
94	Simulation of microscale densification during femtosecond laser processing of dielectric materials. Applied Physics A: Materials Science and Processing, 2004, 79, 945-948.	1.1	21
95	Enhanced machining of steel using femtosecond pulse pairs. Applied Physics A: Materials Science and Processing, 2010, 101, 487-490.	1.1	21
96	Controlling phase change through ultrafast excitation of coherent phonons. Optics Express, 2010, 18, 20498.	1.7	21
97	Power delivery and self-heating in nanoscale near field transducer for heat-assisted magnetic recording. Nanotechnology, 2015, 26, 134001.	1.3	21
98	Bridged Bowtie Aperture Antenna for Producing an Electromagnetic Hot Spot. ACS Photonics, 2017, 4, 567-575.	3.2	21
99	Near-Field Imaging of Surface Plasmons from the Bulk and Surface State of Topological Insulator Bi₂Te₂Se. ACS Photonics, 2019, 6, 2492-2498.	3.2	21
100	Molecular dynamic study of volumetric phase change induced by a femtosecond laser pulse. Applied Physics A: Materials Science and Processing, 2004, 79, 761-765.	1.1	20
101	Plasmonic Multibowtie Aperture Antenna with Fano Resonance for Nanoscale Spectral Sorting. ACS Photonics, 2016, 3, 1689-1697.	3.2	20
102	Finite Element Analysis of Pulsed Laser Bending: The Effect of Melting and Solidification. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 321-326.	1.1	19
103	Coherent phonon excitation in bismuth. Applied Surface Science, 2007, 253, 6301-6304.	3.1	19
104	Extraordinary transmission from high-gain nanoaperture antennas. Applied Physics Letters, 2010, 96, 211116.	1.5	19
105	Substituted Thioxanthone-Based Photoinitiators for Efficient Two-Photon Direct Laser Writing Polymerization with Two-Color Resolution. ACS Applied Polymer Materials, 2021, 3, 1426-1435.	2.0	19
106	Molecular dynamics simulation of ultrafast laser ablation of fused silica film. Applied Physics A: Materials Science and Processing, 2008, 92, 849-852.	1.1	18
107	Optical nanolithography with Î»/15 resolution using bowtie aperture array. Applied Physics A: Materials Science and Processing, 2014, 117, 307-311.	1.1	18
108	Inverse Design of Plasmonic Structures with FDTD. ACS Photonics, 2021, 8, 1489-1496.	3.2	18

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109	High temperature radiative properties of thin polysilicon films at the Î» = 0.6328 Î¼m wavelength. International Journal of Heat and Mass Transfer, 1993, 36, 4163-4172.	2.5	17
110	Molecular Dynamics Calculation of Critical Point of Nickel. International Journal of Thermophysics, 2007, 28, 9-19.	1.0	17
111	Molecular dynamics studies of ultrafast laser-induced phase and structural change in crystalline silicon. International Journal of Heat and Mass Transfer, 2012, 55, 6060-6066.	2.5	17
112	Fabrication of bowtie aperture antennas for producing sub-20 nm optical spots. Optics Express, 2015, 23, 9093.	1.7	17
113	Nanoparticles Formed in Picosecond Laser Argon Crystal Interaction. Journal of Heat Transfer, 2003, 125, 1147-1155.	1.2	16
114	Plasma formation in fused silica induced by loosely focused femtosecond laser pulse. Applied Physics Letters, 2006, 88, 111502.	1.5	16
115	Cross-plane thermoelectric transport in p-type La0.67Sr0.33MnO3/LaMnO3 oxide metal/semiconductor superlattices. Journal of Applied Physics, 2013, 113, 193702.	1.1	16
116	Energy Transport by Radiation in Hyperbolic Material Comparable to Conduction. Advanced Functional Materials, 2020, 30, 1905830.	7.8	16
117	Ultrafast two-color ablation of fused silica. Applied Physics A: Materials Science and Processing, 2006, 83, 49-52.	1.1	15
118	Near-field radiative heat transfer enhancement using natural hyperbolic material. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 115-121.	1.1	15
119	High Accuracy Ultrafast Spatiotemporal Pumpâ€“Probe Measurement of Electrical Thermal Transport in Thin Film Gold. Nano Letters, 2021, 21, 7228-7235.	4.5	15
120	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. Advanced Materials, 2009, 21, 4280-4283.	11.1	14
121	Comparative study of optical near-field transducers for heat-assisted magnetic recording. Optical Engineering, 2017, 56, 121906.	0.5	14
122	Laser bending for adjusting curvatures of hard disk suspensions. Microsystem Technologies, 2005, 11, 1197-1203.	1.2	13
123	Selective Contact Anneal Effects on Indium Oxide Nanowire Transistors using Femtosecond Laser. Journal of Physical Chemistry C, 2011, 115, 17147-17153.	1.5	13
124	Cross-plane electronic and thermal transport properties of p-type La0.67Sr0.33MnO3/LaMnO3 perovskite oxide metal/semiconductor superlattices. Journal of Applied Physics, 2012, 112, 063714.	1.1	13
125	The origin of interferometric effect involving surface plasmon polariton in scattering near-field scanning optical microscopy. Optics Express, 2014, 22, 2965.	1.7	13
126	Parametric Optimization of Thermoelectric Generators for Waste Heat Recovery. Journal of Electronic Materials, 2016, 45, 5213-5222.	1.0	13

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127	Infrared ultrafast spectroscopy of solution-grown thin film tellurium. Physical Review B, 2019, 100, .	1.1	13
128	Optical Chirality Detection Using a Topological Insulator Transistor. Advanced Optical Materials, 2021, 9, 2002210.	3.6	13
129	Planar laser imaging and modeling of matrix-assisted pulsed-laser evaporation direct write in the bubble regime. Journal of Applied Physics, 2006, 100, 033107.	1.1	12
130	Three-dimensional mapping of optical near field with scattering SNOM. Optics Express, 2015, 23, 18730.	1.7	12
131	Heat and Mass Transfer in Pulsed-Laser-Induced Phase Transformations. Advances in Heat Transfer, 1996, 28, 75-144.	0.4	11
132	Resolving near-field from high order signals of scattering near-field scanning optical microscopy. Optics Express, 2014, 22, 18715.	1.7	11
133	High precision dynamic alignment and gap control for optical near-field nanolithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 041601.	0.6	10
134	Enhancing photo-induced ultrafast charge transfer across heterojunctions of CdS and laser-sintered TiO₂ nanocrystals. Physical Chemistry Chemical Physics, 2014, 16, 10669-10678.	1.3	10
135	Perturbation of the substrate temperature by the impingement of laser ablated particles. Journal of Applied Physics, 1995, 77, 6715-6717.	1.1	9
136	Laser-based fabrication of polymer micropump. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2004, 3, 152.	1.0	9
137	Numerical investigation of a narrowband absorber with a simple structure. OSA Continuum, 2020, 3, 3582.	1.8	9
138	Molecular dynamics studies of ultrafast laser-induced nonthermal melting. Applied Physics A: Materials Science and Processing, 2013, 110, 617-621.	1.1	8
139	Laser direct writing of silicon field effect transistor sensors. Applied Physics Letters, 2013, 102, 093504.	1.5	8
140	Metamaterial-based perfect absorbers for efficiently enhancing near field radiative heat transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 167, 156-163.	1.1	8
141	Sub-diffraction Laser Synthesis of Silicon Nanowires. Scientific Reports, 2015, 4, 3908.	1.6	8
142	Improved Near-Field Transducer Design for Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2016, 52, 1-6.	1.2	8
143	Ultrafast Spectroscopy of CdSe Nanocrystals: Morphological and Environmental Effects on Nonradiative and Nonadiabatic Relaxation. Journal of Physical Chemistry C, 2014, 118, 2844-2850.	1.5	7
144	Deep tuning of photo-thermoelectricity in topological surface states. Scientific Reports, 2020, 10, 16761.	1.6	7

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145	Enhancement of Thermal Transfer From Î²-Ga₂O₃ Nano-Membrane Field-Effect Transistors to High Thermal Conductivity Substrate by Inserting an Interlayer. IEEE Transactions on Electron Devices, 2022, 69, 1186-1190.	1.6	7
146	Selective laser sintering of microwave components. , 2005, , .		6
147	Optical Resonance in Bowtie-Shaped Nanoapertures. Journal of Computational and Theoretical Nanoscience, 2008, 5, 214-220.	0.4	6
148	Split ring resonator as a nanoscale optical transducer for heat-assisted magnetic recording. Optics Express, 2019, 27, 28264.	1.7	6
149	Model for polymerization and self-deactivation in two-photon nanolithography. Optics Express, 2022, 30, 26824.	1.7	6
150	Transient heating and melting transformations in argonâ€ion laser irradiation of polysilicon films. Journal of Applied Physics, 1993, 73, 8088-8096.	1.1	5
151	Mechanism of vertical Ge nanowire nucleation on Si (111) during subeutectic annealing and growth. Journal of Materials Research, 2011, 26, 2744-2748.	1.2	5
152	Infrared Near-Field Transducer for Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	5
153	Ultrafast Electronâ€“Phonon Coupling at Metal-Dielectric Interface. Heat Transfer Engineering, 2019, 40, 1211-1219.	1.2	5
154	Highâ€Speed Oneâ€Photon 3D Nanolithography Using Controlled Initiator Depletion and Inhibitor Transport. Advanced Optical Materials, 2022, 10, .	3.6	5
155	Nanometer-level alignment using interferometric-spatial-phase-imaging (ISPI) during silicon nanowire growth. Proceedings of SPIE, 2010, , .	0.8	4
156	Resonant Oscillations in Multiple-Filled Skutterudites. Journal of Electronic Materials, 2013, 42, 1978-1981.	1.0	4
157	Ultrafast carriers dynamics in filled-skutterudites. Applied Physics Letters, 2015, 106, 231902.	1.5	4
158	Optical and thermal designs of near field transducer for heat assisted magnetic recording. Japanese Journal of Applied Physics, 2018, 57, 09TA01.	0.8	4
159	Ultrafast time-resolved measurement of energy transport at the metal-liquid interface. Applied Physics Letters, 2018, 112, 253105.	1.5	4
160	Chiro-optical response of a wafer scale metamaterial with ellipsoidal metal nanoparticles. Nanotechnology, 2021, 32, 315705.	1.3	4
161	3D printing enabled by light and enabling the manipulation of light: feature issue introduction. Optical Materials Express, 2020, 10, 3414.	1.6	4
162	Direct Writing of Conventional Thick Film Inks Using MAPLE-DW Process. Journal of Laser Micro Nanoengineering, 2006, 1, 74-78.	0.4	4

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163	Laser direct writing of modulation-doped nanowire p/n junctions. Nanotechnology, 2016, 27, 485205.	1.3	3
164	Optical and Thermal Behaviors of Plasmonic Bowtie Aperture and Its NSOM Characterization for Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2016, 52, 1-5.	1.2	3
165	Inverse Design of Near-Field Transducer for Heat-Assisted Magnetic Recording Using Topology Optimization. IEEE Transactions on Magnetics, 2021, 57, 1-6.	1.2	3
166	Selective laser sintering of patch antennas on FR4. , 0, , .		2
167	Temperature and Strain Effects in Micro-Raman Thermometry for Measuring In-Plane Thermal Conductivity of Thin Films. Nanoscale and Microscale Thermophysical Engineering, 2021, 25, 91-100.	1.4	2
168	Near-field radiative transfer by bulk hyperbolic polaritons across vacuum gap. International Journal of Heat and Mass Transfer, 2021, 170, 120984.	2.5	2
169	Laser fabrication of micro-fluidic devices. , 2001, , .		1
170	Phase Change Mechanisms in Pulsed Laser-Matter Interaction. Materials Research Society Symposia Proceedings, 2004, 850, 193.	0.1	1
171	Subdiffraction light focusing using a cross sectional ridge waveguide nanoscale aperture. Optics Express, 2016, 24, 26016.	1.7	1
172	Laser-based Method for Sustainable Nanomanufacturing. Procedia Manufacturing, 2017, 7, 118-120.	1.9	1
173	Pulsed laser machining of thin films for microsensor development. , 1999, , .		1
174	Microscale bending with CW and pulsed laser. , 1999, , .		0
175	Thermomechanical effect induced by pulse laser heating. , 0, , .		0
176	Numerical analysis of the spectral response of an NSOM measurement. Applied Physics B: Lasers and Optics, 2008, 93, 47-54.	1.1	0
177	Coherent phonon excitation and manipulation in bismuth using temporally shaped ultrafast pulses. , 2008, , .		0
178	Producing nanoscale laser spot for heat assisted magnetic recording. , 2017, , .		0
179	3D printing enabled by light and enabling the manipulation of light: feature issue introduction. Optical Materials Express, 2020, 10, 3414.	1.6	0