

Xianfan Xu

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172
papers

13,529
citations

46
h-index

115
g-index

179
ext. papers

15,332
ext. citations

5.1
avg. IF

6.62
L-index

#	Paper	IF	Citations
172	Phosphorene: an unexplored 2D semiconductor with a high hole mobility. <i>ACS Nano</i> , 2014 , 8, 4033-41	16.7	4487
171	Thermal Conductivity of Nanoparticle - Fluid Mixture. <i>Journal of Thermophysics and Heat Transfer</i> , 1999 , 13, 474-480	1.3	1670
170	Black phosphorus-monolayer MoS ₂ van der Waals heterojunction p-n diode. <i>ACS Nano</i> , 2014 , 8, 8292-9	16.7	979
169	Anisotropic in-plane thermal conductivity observed in few-layer black phosphorus. <i>Nature Communications</i> , 2015 , 6, 8572	17.4	426
168	Field-effect transistors made from solution-grown two-dimensional tellurene. <i>Nature Electronics</i> , 2018 , 1, 228-236	28.4	358
167	Rational synthesis of ultrathin n-type Bi ₂ Te ₃ nanowires with enhanced thermoelectric properties. <i>Nano Letters</i> , 2012 , 12, 56-60	11.5	245
166	Ultrasensitive mass sensing using mode localization in coupled microcantilevers. <i>Applied Physics Letters</i> , 2006 , 88, 254102	3.4	235
165	Nanolithography using high transmission nanoscale bowtie apertures. <i>Nano Letters</i> , 2006 , 6, 361-4	11.5	192
164	One-Dimensional van der Waals Material Tellurium: Raman Spectroscopy under Strain and Magneto-Transport. <i>Nano Letters</i> , 2017 , 17, 3965-3973	11.5	182
163	Auxetic Black Phosphorus: A 2D Material with Negative Poisson's Ratio. <i>Nano Letters</i> , 2016 , 16, 6701-6708	11.5	135
162	Controlled Growth of a Large-Size 2D Selenium Nanosheet and Its Electronic and Optoelectronic Applications. <i>ACS Nano</i> , 2017 , 11, 10222-10229	16.7	128
161	Increased real contact in thermal interfaces: A carbon nanotube/foil material. <i>Applied Physics Letters</i> , 2007 , 90, 093513	3.4	124
160	Far-field Imaging of Non-fluorescent Species with Sub-diffraction Resolution. <i>Nature Photonics</i> , 2013 , 7, 449-453	33.9	107
159	Obtaining super resolution light spot using surface plasmon assisted sharp ridge nanoaperture. <i>Applied Physics Letters</i> , 2005 , 86, 111106	3.4	106
158	HEAT TRANSFER IN FEMTOSECOND LASER PROCESSING OF METAL. <i>Numerical Heat Transfer; Part A: Applications</i> , 2003 , 44, 219-232	2.3	105
157	Thermoelastic wave induced by pulsed laser heating. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 107-114	2.6	105
156	Plasmonic Resonance Enhanced Polarization-Sensitive Photodetection by Black Phosphorus in Near Infrared. <i>ACS Nano</i> , 2018 , 12, 4861-4867	16.7	104

155	Thermoelectric Generators for Automotive Waste Heat Recovery Systems Part I: Numerical Modeling and Baseline Model Analysis. <i>Journal of Electronic Materials</i> , 2013 , 42, 665-674	1.9	103
154	Plasmonic near-field transducer for heat-assisted magnetic recording. <i>Nanophotonics</i> , 2014 , 3, 141-155	6.3	101
153	Explosive phase transformation in excimer laser ablation. <i>Applied Surface Science</i> , 1998 , 127-129, 111-116.	99	
152	Generalized theory of the photoacoustic effect in a multilayer material. <i>Journal of Applied Physics</i> , 1999 , 86, 3953-3958	2.5	98
151	Finite-Difference Time-Domain Studies on Optical Transmission through Planar Nano-Apertures in a Metal Film. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 407-417	1.4	92
150	Enhanced optical near field from a bowtie aperture. <i>Applied Physics Letters</i> , 2006 , 88, 153110	3.4	88
149	Femtosecond laser absorption in fused silica: Numerical and experimental investigation. <i>Physical Review B</i> , 2005 , 72,	3.3	81
148	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. <i>Nanotechnology</i> , 2010 , 21, 445705	3.4	75
147	Plasmonic effects in near-field optical transmission enhancement through a single bowtie-shaped aperture. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 84, 3-9	1.9	72
146	Non-Equilibrium Phase Change in Metal Induced by Nanosecond Pulsed Laser Irradiation. <i>Journal of Heat Transfer</i> , 2002 , 124, 293-298	1.8	71
145	Molecular Dynamics Simulation of Heat Transfer and Phase Change During Laser Material Interaction. <i>Journal of Heat Transfer</i> , 2002 , 124, 265-274	1.8	70
144	Photo-Acoustic Measurement of Thermal Conductivity of Thin Films and Bulk Materials. <i>Journal of Heat Transfer</i> , 2001 , 123, 138-144	1.8	68
143	Anisotropic Effects on the Thermoelectric Properties of Highly Oriented Electrodeposited Bi ₂ Te ₃ Films. <i>Scientific Reports</i> , 2016 , 6, 19129	4.9	65
142	THERMOELASTIC WAVE IN METAL INDUCED BY ULTRAFAST LASER PULSES. <i>Journal of Thermal Stresses</i> , 2002 , 25, 457-473	2.2	65
141	High transmission nanoscale bowtie-shaped aperture probe for near-field optical imaging. <i>Applied Physics Letters</i> , 2007 , 90, 261105	3.4	63
140	Phase explosion and its time lag in nanosecond laser ablation. <i>Applied Surface Science</i> , 2002 , 197-198, 61-66	6.7	61
139	Observation of Optical and Electrical In-Plane Anisotropy in High-Mobility Few-Layer ZrTe ₂ . <i>Nano Letters</i> , 2016 , 16, 7364-7369	11.5	59
138	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. <i>Nanotechnology</i> , 2008 , 19, 125703	3.4	58

137	Thermoelectric Generators for Automotive Waste Heat Recovery Systems Part II: Parametric Evaluation and Topological Studies. <i>Journal of Electronic Materials</i> , 2013 , 42, 944-955	1.9	57
136	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	56
135	Ultrafast double-pulse ablation of fused silica. <i>Applied Physics Letters</i> , 2005 , 86, 151110	3.4	56
134	Thermoelectric Performance of 2D Tellurium with Accumulation Contacts. <i>Nano Letters</i> , 2019 , 19, 1955-1962	3.4	56
133	Raman response and transport properties of tellurium atomic chains encapsulated in nanotubes. <i>Nature Electronics</i> , 2020 , 3, 141-147	28.4	54
132	Thermal conductivity of bismuth telluride nanowire array-epoxy composite. <i>Applied Physics Letters</i> , 2009 , 94, 223116	3.4	54
131	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. <i>Nanotechnology</i> , 2007 , 18, 385303	3.4	53
130	Development of a biosensor based on laser-fabricated polymer microcantilevers. <i>Applied Physics Letters</i> , 2004 , 85, 2423-2425	3.4	51
129	Excimer laser fabrication of polymer microfluidic devices. <i>Journal of Laser Applications</i> , 2003 , 15, 255-260.	3.4	50
128	Laser direct synthesis of graphene on quartz. <i>Carbon</i> , 2013 , 53, 374-379	10.4	48
127	Laser direct growth of graphene on silicon substrate. <i>Applied Physics Letters</i> , 2012 , 100, 023110	3.4	46
126	Ultrafast dynamics of photoexcited coherent phonon in Bi ₂ Te ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 92, 011108	3.4	46
125	Ultra-fast laser absorption and ablation dynamics in wide-band-gap dielectrics. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1627-1632	2.6	45
124	Coupling of ultrafast laser energy to coherent phonons in bismuth. <i>Applied Physics Letters</i> , 2007 , 90, 251111	3.4	44
123	Reduction in coherent phonon lifetime in Bi ₂ Te ₃ /Sb ₂ Te ₃ superlattices. <i>Applied Physics Letters</i> , 2008 , 93, 113114	3.4	43
122	Thermoelectric properties of electrodeposited tellurium films and the sodium lignosulfonate effect. <i>Electrochimica Acta</i> , 2015 , 169, 37-45	6.7	41
121	Molecular Dynamics Study of Phase Change Mechanisms During Femtosecond Laser Ablation. <i>Journal of Heat Transfer</i> , 2004 , 126, 727-734	1.8	41
120	Mode-Wise Thermal Conductivity of Bismuth Telluride. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	40

119	Molecular dynamics simulation of thermal and thermomechanical phenomena in picosecond laser material interaction. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 45-53	4.9	40
118	Resonant oscillation of misch-metal atoms in filled skutterudites. <i>Physical Review Letters</i> , 2009 , 102, 175508	7.4	39
117	Experimental and 3D Finite Element Studies of CW Laser Forming of Thin Stainless Steel Sheets. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2001 , 123, 66-73	3.3	39
116	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2008 , 12, 228-237	3.7	38
115	Heat transfer and phase change during picosecond laser ablation of nickel. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 3911-3918	4.9	38
114	Parallel optical nanolithography using nanoscale bowtie aperture array. <i>Optics Express</i> , 2010 , 18, 7369-753	3	36
113	Acoustic phonon scattering in Bi ₂ Te ₃ /Sb ₂ Te ₃ superlattices. <i>Applied Physics Letters</i> , 2010 , 97, 083103	3.4	34
112	Complementary bowtie aperture for localizing and enhancing optical magnetic field. <i>Optics Letters</i> , 2011 , 36, 2764-6	3	30
111	Fabricating subwavelength dot-matrix surface structures of molybdenum by transient correlated actions of two-color femtosecond laser beams. <i>Optics Express</i> , 2015 , 23, 5357-67	3.3	28
110	Ultrafast Spectroscopy of Electron-Phonon Coupling in Gold. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	28
109	Contact optical nanolithography using nanoscale C-shaped apertures. <i>Optics Express</i> , 2006 , 14, 9902-8	3.3	27
108	Control of current saturation and threshold voltage shift in indium oxide nanowire transistors with femtosecond laser annealing. <i>ACS Nano</i> , 2011 , 5, 1095-101	16.7	26
107	Extraordinary infrared transmission through a periodic bowtie aperture array. <i>Optics Letters</i> , 2010 , 35, 992-4	3	26
106	Improving near-field confinement of a bowtie aperture using surface plasmon polaritons. <i>Applied Physics Letters</i> , 2011 , 98, 223106	3.4	26
105	Measurement of solid-liquid interface temperature during pulsed excimer laser melting of polycrystalline silicon films. <i>Applied Physics Letters</i> , 1994 , 65, 1745-1747	3.4	26
104	Mid-infrared ultrafast carrier dynamics in thin film black phosphorus. <i>2D Materials</i> , 2017 , 4, 021032	5.9	25
103	Measurement of In-Plane Thermal Conductivity of Ultrathin Films Using Micro-Raman Spectroscopy. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014 , 18, 183-193	3.7	25
102	Interface kinetics during pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S869-S873	2.6	24

101	Temporal profile of optical transmission probe for pulsed-laser heating of amorphous silicon films. <i>Applied Physics Letters</i> , 1992 , 61, 749-751	3.4	23
100	Large Enhancement of Thermal Conductivity and Lorenz Number in Topological Insulator Thin Films. <i>ACS Nano</i> , 2018 , 12, 1120-1127	16.7	22
99	Three-dimensional mapping of optical near field of a nanoscale bowtie antenna. <i>Optics Express</i> , 2010 , 18, 4961-71	3.3	22
98	Laser bending for high-precision curvature adjustment of microcantilevers. <i>Applied Physics Letters</i> , 2005 , 86, 021114	3.4	22
97	Phase change phenomena during high power laser-materials interaction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 292, 162-168	5.3	22
96	Anisotropic thermal conductivity in 2D tellurium. <i>2D Materials</i> , 2020 , 7, 015008	5.9	22
95	Sub-Diffraction Limited Writing based on Laser Induced Periodic Surface Structures (LIPSS). <i>Scientific Reports</i> , 2016 , 6, 35035	4.9	21
94	Minimum Thermal Conductivity in Weak Topological Insulators with Bismuth-Based Stack Structure. <i>Advanced Functional Materials</i> , 2016 , 26, 5360-5367	15.6	21
93	A regenerative concept for thermoelectric power generation. <i>Applied Energy</i> , 2017 , 185, 119-125	10.7	21
92	Optimization of Thermoelectric Components for Automobile Waste Heat Recovery Systems. <i>Journal of Electronic Materials</i> , 2015 , 44, 3627-3636	1.9	20
91	Controlling phase change through ultrafast excitation of coherent phonons. <i>Optics Express</i> , 2010 , 18, 20498-504	3.3	20
90	Nanolithography using high transmission nanoscale ridge aperture probe. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 881-884	2.6	20
89	Ultrafast Surface State Spin-Carrier Dynamics in the Topological Insulator Bi ₂ Te ₂ Se. <i>Physical Review Letters</i> , 2018 , 121, 026807	7.4	19
88	Power delivery and self-heating in nanoscale near field transducer for heat-assisted magnetic recording. <i>Nanotechnology</i> , 2015 , 26, 134001	3.4	19
87	Enhanced machining of steel using femtosecond pulse pairs. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 487-490	2.6	19
86	Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19727-19733	3.8	19
85	Coherent phonon excitation in bismuth. <i>Applied Surface Science</i> , 2007 , 253, 6301-6304	6.7	19
84	Extraordinary transmission from high-gain nanoaperture antennas. <i>Applied Physics Letters</i> , 2010 , 96, 211116	3.4	18

83	High efficiency excitation of plasmonic waveguides with vertically integrated resonant bowtie apertures. <i>Optics Express</i> , 2009 , 17, 8036-45	3.3	18
82	Molecular dynamic study of volumetric phase change induced by a femtosecond laser pulse. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 761-765	2.6	18
81	Nanoscale ridge aperture as near-field transducer for heat-assisted magnetic recording. <i>Applied Optics</i> , 2011 , 50, G42-6	0.2	17
80	Plasmonic Multibowtie Aperture Antenna with Fano Resonance for Nanoscale Spectral Sorting. <i>ACS Photonics</i> , 2016 , 3, 1689-1697	6.3	17
79	Fabrication of bowtie aperture antennas for producing sub-20 nm optical spots. <i>Optics Express</i> , 2015 , 23, 9093-9	3.3	16
78	Bridged Bowtie Aperture Antenna for Producing an Electromagnetic Hot Spot. <i>ACS Photonics</i> , 2017 , 4, 567-575	6.3	15
77	Near-Field Thermal Radiation between Two Plates with Sub-10 nm Vacuum Separation. <i>Nano Letters</i> , 2020 , 20, 6091-6096	11.5	15
76	Optical nanolithography with ≈ 15 nm resolution using bowtie aperture array. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 307-311	2.6	15
75	Molecular dynamics simulation of ultrafast laser ablation of fused silica film. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 849-852	2.6	15
74	High Precision Microscale Bending by Pulsed and CW Lasers. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2003 , 125, 512-518	3.3	15
73	Finite Element Analysis of Pulsed Laser Bending: The Effect of Melting and Solidification. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2004 , 71, 321-326	2.7	15
72	Fabrication of silver nanostructures using femtosecond laser-induced photoreduction. <i>Nanotechnology</i> , 2017 , 28, 505302	3.4	14
71	Assessment of Thermal Properties via Nanosecond Thermoreflectance Method. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015 , 19, 245-257	3.7	14
70	Molecular Dynamics Calculation of Critical Point of Nickel. <i>International Journal of Thermophysics</i> , 2007 , 28, 9-19	2.1	14
69	Cross-plane thermoelectric transport in p-type La _{0.67} Sr _{0.33} MnO ₃ /LaMnO ₃ oxide metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , 2013 , 113, 193702	2.5	13
68	Selective Contact Anneal Effects on Indium Oxide Nanowire Transistors using Femtosecond Laser. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17147-17153	3.8	13
67	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. <i>Advanced Materials</i> , 2009 , 21, 4280-4283	24	13
66	High temperature radiative properties of thin polysilicon films at the $\lambda = 0.6328 \mu\text{m}$ wavelength. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 4163-4172	4.9	13

65	Rapid, continuous projection multi-photon 3D printing enabled by spatiotemporal focusing of femtosecond pulses. <i>Light: Science and Applications</i> , 2021 , 10, 199	16.7	13
64	The origin of interferometric effect involving surface plasmon polariton in scattering near-field scanning optical microscopy. <i>Optics Express</i> , 2014 , 22, 2965-72	3.3	12
63	Molecular dynamics studies of ultrafast laser-induced phase and structural change in crystalline silicon. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6060-6066	4.9	12
62	Planar laser imaging and modeling of matrix-assisted pulsed-laser evaporation direct write in the bubble regime. <i>Journal of Applied Physics</i> , 2006 , 100, 033107	2.5	12
61	Nanoparticles Formed in Picosecond Laser Argon Crystal Interaction. <i>Journal of Heat Transfer</i> , 2003 , 125, 1147-1155	1.8	12
60	Near-Field Imaging of Surface Plasmons from the Bulk and Surface State of Topological Insulator Bi ₂ Te ₂ Se. <i>ACS Photonics</i> , 2019 , 6, 2492-2498	6.3	11
59	Resolving near-field from high order signals of scattering near-field scanning optical microscopy. <i>Optics Express</i> , 2014 , 22, 18715-23	3.3	11
58	Simulation of microscale densification during femtosecond laser processing of dielectric materials. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 945-948	2.6	11
57	Laser bending for adjusting curvatures of hard disk suspensions. <i>Microsystem Technologies</i> , 2005 , 11, 1197-1203	1.7	11
56	Comparative study of optical near-field transducers for heat-assisted magnetic recording. <i>Optical Engineering</i> , 2017 , 56, 121906	1.1	10
55	Three-dimensional mapping of optical near field with scattering SNOM. <i>Optics Express</i> , 2015 , 23, 18730-5.3	5.3	10
54	Enhancing photo-induced ultrafast charge transfer across heterojunctions of CdS and laser-sintered TiO ₂ nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10669-78	3.6	10
53	Cross-plane electronic and thermal transport properties of p-type La _{0.67} Sr _{0.33} MnO ₃ /LaMnO ₃ perovskite oxide metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , 2012 , 112, 063714	2.5	10
52	Plasma formation in fused silica induced by loosely focused femtosecond laser pulse. <i>Applied Physics Letters</i> , 2006 , 88, 111502	3.4	10
51	Ultrafast two-color ablation of fused silica. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 83, 49-52	2.6	10
50	Parametric Optimization of Thermoelectric Generators for Waste Heat Recovery. <i>Journal of Electronic Materials</i> , 2016 , 45, 5213-5222	1.9	10
49	Tailored thioxanthone-based photoinitiators for two-photon-controllable polymerization and nanolithographic printing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1462-1475	2.6	9
48	High precision dynamic alignment and gap control for optical near-field nanolithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 041601	1.3	9

47	Perturbation of the substrate temperature by the impingement of laser ablated particles. <i>Journal of Applied Physics</i> , 1995 , 77, 6715-6717	2.5	9
46	Near-field radiative heat transfer enhancement using natural hyperbolic material. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 222-223, 115-121	2.1	9
45	Sub-diffraction laser synthesis of silicon nanowires. <i>Scientific Reports</i> , 2014 , 4, 3908	4.9	8
44	Metamaterial-based perfect absorbers for efficiently enhancing near field radiative heat transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 167, 156-163	2.1	8
43	Heat and Mass Transfer in Pulsed-Laser-Induced Phase Transformations. <i>Advances in Heat Transfer</i> , 1996 , 28, 75-144	1.9	8
42	Substituted Thioxanthone-Based Photoinitiators for Efficient Two-Photon Direct Laser Writing Polymerization with Two-Color Resolution. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1426-1435	4.3	8
41	Thermoelectric Performance of Lead-Free Two-Dimensional Halide Perovskites Featuring Conjugated Ligands. <i>Nano Letters</i> , 2021 , 21, 7839-7844	11.5	8
40	Laser direct writing of silicon field effect transistor sensors. <i>Applied Physics Letters</i> , 2013 , 102, 093504	3.4	7
39	Laser-based fabrication of polymer micropump. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2004 , 3, 152	0.7	7
38	Energy Transport by Radiation in Hyperbolic Material Comparable to Conduction. <i>Advanced Functional Materials</i> , 2020 , 30, 1905830	15.6	7
37	Infrared ultrafast spectroscopy of solution-grown thin film tellurium. <i>Physical Review B</i> , 2019 , 100,	3.3	6
36	Ultrafast Spectroscopy of CdSe Nanocrystals: Morphological and Environmental Effects on Nonradiative and Nonadiabatic Relaxation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2844-2850	3.8	6
35	Molecular dynamics studies of ultrafast laser-induced nonthermal melting. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 110, 617-621	2.6	6
34	Optical Resonance in Bowtie-Shaped Nanoapertures. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008 , 5, 214-220	0.3	6
33	Improved Near-Field Transducer Design for Heat-Assisted Magnetic Recording. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-6	2	5
32	Mechanism of vertical Ge nano wire nucleation on Si (111) during subeutectic annealing and growth. <i>Journal of Materials Research</i> , 2011 , 26, 2744-2748	2.5	5
31	Transient heating and melting transformations in argon-ion laser irradiation of polysilicon films. <i>Journal of Applied Physics</i> , 1993 , 73, 8088-8096	2.5	5
30	Ultrafast carriers dynamics in filled-skutterudites. <i>Applied Physics Letters</i> , 2015 , 106, 231902	3.4	4

29	Infrared Near-Field Transducer for Heat-Assisted Magnetic Recording. <i>IEEE Transactions on Magnetism</i> , 2017 , 53, 1-5	2	4
28	Resonant Oscillations in Multiple-Filled Skutterudites. <i>Journal of Electronic Materials</i> , 2013 , 42, 1978-1981	19	4
27	Nanometer-level alignment using interferometric-spatial-phase-imaging (ISPI) during silicon nanowire growth 2010 ,		4
26	Selective laser sintering of microwave components 2005 ,		4
25	Inverse Design of Plasmonic Structures with FDTD. <i>ACS Photonics</i> , 2021 , 8, 1489-1496	6.3	4
24	Laser direct writing of modulation-doped nanowire p/n junctions. <i>Nanotechnology</i> , 2016 , 27, 485205	3.4	3
23	Enhancement of Thermal Transfer From β -Ga N Nano-Membrane Field-Effect Transistors to High Thermal Conductivity Substrate by Inserting an Interlayer. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-5	2.9	3
22	Split ring resonator as a nanoscale optical transducer for heat-assisted magnetic recording. <i>Optics Express</i> , 2019 , 27, 28264-28278	3.3	3
21	Numerical investigation of a narrowband absorber with a simple structure. <i>OSA Continuum</i> , 2020 , 3, 3582-4	2.4	3
20	Direct Writing of Conventional Thick Film Inks Using MAPLE-DW Process. <i>Journal of Laser Micro Nanoengineering</i> , 2006 , 1, 74-78	1	3
19	Optical Chirality Detection Using a Topological Insulator Transistor. <i>Advanced Optical Materials</i> , 2021 , 9, 2002210	8.1	3
18	Ultrafast time-resolved measurement of energy transport at the metal-liquid interface. <i>Applied Physics Letters</i> , 2018 , 112, 253105	3.4	3
17	Optical and Thermal Behaviors of Plasmonic Bowtie Aperture and Its NSOM Characterization for Heat-Assisted Magnetic Recording. <i>IEEE Transactions on Magnetism</i> , 2016 , 52, 1-5	2	2
16	Selective laser sintering of patch antennas on FR4		2
15	3D printing enabled by light and enabling the manipulation of light: feature issue introduction. <i>Optical Materials Express</i> , 2020 , 10, 3414	2.6	2
14	Deep tuning of photo-thermoelectricity in topological surface states. <i>Scientific Reports</i> , 2020 , 10, 16761	4.9	2
13	Temperature and Strain Effects in Micro-Raman Thermometry for Measuring In-Plane Thermal Conductivity of Thin Films. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2021 , 25, 91-100	3.7	2
12	Ultrafast Electron-Phonon Coupling at Metal-Dielectric Interface. <i>Heat Transfer Engineering</i> , 2019 , 40, 1211-1219	1.7	2

11	High Accuracy Ultrafast Spatiotemporal Pump-Probe Measurement of Electrical Thermal Transport in Thin Film Gold. <i>Nano Letters</i> , 2021 , 21, 7228-7235	11.5	2
10	Phase Change Mechanisms in Pulsed Laser-Matter Interaction. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 850, 193		1
9	Laser fabrication of micro-fluidic devices 2001 ,		1
8	Pulsed laser machining of thin films for microsensor development 1999 ,		1
7	Near-field radiative transfer by bulk hyperbolic polaritons across vacuum gap. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 170, 120984	4.9	1
6	Subdiffraction light focusing using a cross sectional ridge waveguide nanoscale aperture. <i>Optics Express</i> , 2016 , 24, 26016-26023	3.3	1
5	Optical and thermal designs of near field transducer for heat assisted magnetic recording. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 09TA01	1.4	1
4	Inverse Design of Near-Field Transducer for Heat-Assisted Magnetic Recording Using Topology Optimization. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	0
3	High-Speed One-Photon 3D Nanolithography Using Controlled Initiator Depletion and Inhibitor Transport. <i>Advanced Optical Materials</i> , 2022 , 10, 2102262	8.1	0
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