Xianfan Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enhancement of Thermal Transfer From □GaO□ Nano-Membrane Field-Effect Transistors to High Thermal Conductivity Substrate by Inserting an Interlayer. *IEEE Transactions on Electron Devices*, **2022**, 1-5	2.9	3
171	High-Speed One-Photon 3D Nanolithography Using Controlled Initiator Depletion and Inhibitor Transport. *Advanced Optical Materials*, **2022**, 10, 2102262	8.1	0
170	Optical Chirality Detection Using a Topological Insulator Transistor. *Advanced Optical Materials*, **2021**, 9, 2002210	8.1	3
169	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	3.7	2
168	Inverse Design of Plasmonic Structures with FDTD. *ACS Photonics*, **2021**, 8, 1489-1496	6.3	4
167	Near-field radiative transfer by bulk hyperbolic polaritons across vacuum gap. *International Journal of Heat and Mass Transfer*, **2021**, 170, 120984	4.9	1
166	Substituted Thioxanthone-Based Photoinitiators for Efficient Two-Photon Direct Laser Writing Polymerization with Two-Color Resolution. *ACS Applied Polymer Materials*, **2021**, 3, 1426-1435	4.3	8
165	High Accuracy Ultrafast Spatiotemporal Pump-Probe Measurement of Electrical Thermal Transport in Thin Film Gold. *Nano Letters*, **2021**, 21, 7228-7235	11.5	2
164	Inverse Design of Near-Field Transducer for Heat-Assisted Magnetic Recording Using Topology Optimization. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	0
163	Rapid, continuous projection multi-photon 3D printing enabled by spatiotemporal focusing of femtosecond pulses. *Light: Science and Applications*, **2021**, 10, 199	16.7	13
162	Thermoelectric Performance of Lead-Free Two-Dimensional Halide Perovskites Featuring Conjugated Ligands. *Nano Letters*, **2021**, 21, 7839-7844	11.5	8
161	Near-Field Thermal Radiation between Two Plates with Sub-10 nm Vacuum Separation. *Nano Letters*, **2020**, 20, 6091-6096	11.5	15
160	Raman response and transport properties of tellurium atomic chains encapsulated in nanotubes. *Nature Electronics*, **2020**, 3, 141-147	28.4	54
159	3D printing enabled by light and enabling the manipulation of light: feature issue introduction. *Optical Materials Express*, **2020**, 10, 3414	2.6	2
158	Numerical investigation of a narrowband absorber with a simple structure. *OSA Continuum*, **2020**, 3, 3582	2.4	3
157	3D printing enabled by light and enabling the manipulation of light: feature issue introduction. *Optical Materials Express*, **2020**, 10, 3414	2.6	
156	Anisotropic thermal conductivity in 2D tellurium. *2D Materials*, **2020**, 7, 015008	5.9	22

155	Energy Transport by Radiation in Hyperbolic Material Comparable to Conduction. *Advanced Functional Materials*, **2020**, 30, 1905830	15.6	7
154	Deep tuning of photo-thermoelectricity in topological surface states. *Scientific Reports*, **2020**, 10, 16761	4.9	2
153	Infrared ultrafast spectroscopy of solution-grown thin film tellurium. *Physical Review B*, **2019**, 100,	3.3	6
152	Near-Field Imaging of Surface Plasmons from the Bulk and Surface State of Topological Insulator Bi2Te2Se. *ACS Photonics*, **2019**, 6, 2492-2498	6.3	11
151	Tailored thioxanthone-based photoinitiators for two-photon-controllable polymerization and nanolithographic printing. *Journal of Polymer Science, Part B: Polymer Physics*, **2019**, 57, 1462-1475	2.6	9
150	Split ring resonator as a nanoscale optical transducer for heat-assisted magnetic recording. *Optics Express*, **2019**, 27, 28264-28278	3.3	3
149	Thermoelectric Performance of 2D Tellurium with Accumulation Contacts. *Nano Letters*, **2019**, 19, 1955-1962	11.5	56
148	Near-field radiative heat transfer enhancement using natural hyperbolic material. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2019**, 222-223, 115-121	2.1	9
147	Ultrafast Electron–Phonon Coupling at Metal-Dielectric Interface. *Heat Transfer Engineering*, **2019**, 40, 1211-1219	1.7	2
146	Plasmonic Resonance Enhanced Polarization-Sensitive Photodetection by Black Phosphorus in Near Infrared. *ACS Nano*, **2018**, 12, 4861-4867	16.7	104
145	Field-effect transistors made from solution-grown two-dimensional tellurene. *Nature Electronics*, **2018**, 1, 228-236	28.4	358
144	Large Enhancement of Thermal Conductivity and Lorenz Number in Topological Insulator Thin Films. *ACS Nano*, **2018**, 12, 1120-1127	16.7	22
143	Ultrafast Surface State Spin-Carrier Dynamics in the Topological Insulator Bi_{2}Te_{2}Se. *Physical Review Letters*, **2018**, 121, 026807	7.4	19
142	Optical and thermal designs of near field transducer for heat assisted magnetic recording. *Japanese Journal of Applied Physics*, **2018**, 57, 09TA01	1.4	1
141	Ultrafast time-resolved measurement of energy transport at the metal-liquid interface. *Applied Physics Letters*, **2018**, 112, 253105	3.4	3
140	Bridged Bowtie Aperture Antenna for Producing an Electromagnetic Hot Spot. *ACS Photonics*, **2017**, 4, 567-575	6.3	15
139	Comparative study of optical near-field transducers for heat-assisted magnetic recording. *Optical Engineering*, **2017**, 56, 121906	1.1	10
138	One-Dimensional van der Waals Material Tellurium: Raman Spectroscopy under Strain and Magneto-Transport. *Nano Letters*, **2017**, 17, 3965-3973	11.5	182

137	Mid-infrared ultrafast carrier dynamics in thin film black phosphorus. *2D Materials*, **2017**, 4, 021032	5.9	25
136	Controlled Growth of a Large-Size 2D Selenium Nanosheet and Its Electronic and Optoelectronic Applications. *ACS Nano*, **2017**, 11, 10222-10229	16.7	128
135	Fabrication of silver nanostructures using femtosecond laser-induced photoreduction. *Nanotechnology*, **2017**, 28, 505302	3.4	14
134	A regenerative concept for thermoelectric power generation. *Applied Energy*, **2017**, 185, 119-125	10.7	21
133	Infrared Near-Field Transducer for Heat-Assisted Magnetic Recording. *IEEE Transactions on Magnetics*, **2017**, 53, 1-5	2	4
132	Improved Near-Field Transducer Design for Heat-Assisted Magnetic Recording. *IEEE Transactions on Magnetics*, **2016**, 52, 1-6	2	5
131	Sub-Diffraction Limited Writing based on Laser Induced Periodic Surface Structures (LIPSS). *Scientific Reports*, **2016**, 6, 35035	4.9	21
130	Laser direct writing of modulation-doped nanowire p/n junctions. *Nanotechnology*, **2016**, 27, 485205	3.4	3
129	Anisotropic Effects on the Thermoelectric Properties of Highly Oriented Electrodeposited Bi2Te3 Films. *Scientific Reports*, **2016**, 6, 19129	4.9	65
128	Minimum Thermal Conductivity in Weak Topological Insulators with Bismuth-Based Stack Structure. *Advanced Functional Materials*, **2016**, 26, 5360-5367	15.6	21
127	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	2	2
126	Subdiffraction light focusing using a cross sectional ridge waveguide nanoscale aperture. *Optics Express*, **2016**, 24, 26016-26023	3.3	1
125	Parametric Optimization of Thermoelectric Generators for Waste Heat Recovery. *Journal of Electronic Materials*, **2016**, 45, 5213-5222	1.9	10
124	Observation of Optical and Electrical In-Plane Anisotropy in High-Mobility Few-Layer ZrTe. *Nano Letters*, **2016**, 16, 7364-7369	11.5	59
123	Auxetic Black Phosphorus: A 2D Material with Negative Poisson's Ratio. *Nano Letters*, **2016**, 16, 6701-6708	11.5	135
122	Plasmonic Multibowtie Aperture Antenna with Fano Resonance for Nanoscale Spectral Sorting. *ACS Photonics*, **2016**, 3, 1689-1697	6.3	17
121	Fabricating subwavelength dot-matrix surface structures of molybdenum by transient correlated actions of two-color femtosecond laser beams. *Optics Express*, **2015**, 23, 5357-67	3.3	28
120	Ultrafast carriers dynamics in filled-skutterudites. *Applied Physics Letters*, **2015**, 106, 231902	3.4	4

119	Optimization of Thermoelectric Components for Automobile Waste Heat Recovery Systems. *Journal of Electronic Materials*, **2015**, 44, 3627-3636	1.9	20
118	Thermoelectric properties of electrodeposited tellurium films and the sodium lignosulfonate effect. *Electrochimica Acta*, **2015**, 169, 37-45	6.7	41
117	Fabrication of bowtie aperture antennas for producing sub-20 nm optical spots. *Optics Express*, **2015**, 23, 9093-9	3.3	16
116	Three-dimensional mapping of optical near field with scattering SNOM. *Optics Express*, **2015**, 23, 18730-5	3.3	10
115	Anisotropic in-plane thermal conductivity observed in few-layer black phosphorus. *Nature Communications*, **2015**, 6, 8572	17.4	426
114	Power delivery and self-heating in nanoscale near field transducer for heat-assisted magnetic recording. *Nanotechnology*, **2015**, 26, 134001	3.4	19
113	Assessment of Thermal Properties via Nanosecond Thermoreflectance Method. *Nanoscale and Microscale Thermophysical Engineering*, **2015**, 19, 245-257	3.7	14
112	Metamaterial-based perfect absorbers for efficiently enhancing near field radiative heat transfer. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2015**, 167, 156-163	2.1	8
111	Sub-diffraction laser synthesis of silicon nanowires. *Scientific Reports*, **2014**, 4, 3908	4.9	8
110	Optical nanolithography with ⁄15 resolution using bowtie aperture array. *Applied Physics A: Materials Science and Processing*, **2014**, 117, 307-311	2.6	15
109	Ultrafast Spectroscopy of CdSe Nanocrystals: Morphological and Environmental Effects on Nonradiative and Nonadiabatic Relaxation. *Journal of Physical Chemistry C*, **2014**, 118, 2844-2850	3.8	6
108	Measurement of In-Plane Thermal Conductivity of Ultrathin Films Using Micro-Raman Spectroscopy. *Nanoscale and Microscale Thermophysical Engineering*, **2014**, 18, 183-193	3.7	25
107	Enhancing photo-induced ultrafast charge transfer across heterojunctions of CdS and laser-sintered TiO2 nanocrystals. *Physical Chemistry Chemical Physics*, **2014**, 16, 10669-78	3.6	10
106	Black phosphorus-monolayer MoS2 van der Waals heterojunction p-n diode. *ACS Nano*, **2014**, 8, 8292-9	16.7	979
105	Phosphorene: an unexplored 2D semiconductor with a high hole mobility. *ACS Nano*, **2014**, 8, 4033-41	16.7	4487
104	Ultrafast Spectroscopy of Electron-Phonon Coupling in Gold. *Journal of Heat Transfer*, **2014**, 136,	1.8	28
103	Resolving near-field from high order signals of scattering near-field scanning optical microscopy. *Optics Express*, **2014**, 22, 18715-23	3.3	11
102	Plasmonic near-field transducer for heat-assisted magnetic recording. *Nanophotonics*, **2014**, 3, 141-155	6.3	101

101	The origin of interferometric effect involving surface plasmon polariton in scattering near-field scanning optical microscopy. *Optics Express*, **2014**, 22, 2965-72	3.3	12
100	Molecular dynamics studies of ultrafast laser-induced nonthermal melting. *Applied Physics A: Materials Science and Processing*, **2013**, 110, 617-621	2.6	6
99	Thermoelectric Generators for Automotive Waste Heat Recovery Systems Part I: Numerical Modeling and Baseline Model Analysis. *Journal of Electronic Materials*, **2013**, 42, 665-674	1.9	103
98	Far-field Imaging of Non-fluorescent Species with Sub-diffraction Resolution. *Nature Photonics*, **2013**, 7, 449-453	33.9	107
97	Thermoelectric Generators for Automotive Waste Heat Recovery Systems Part II: Parametric Evaluation and Topological Studies. *Journal of Electronic Materials*, **2013**, 42, 944-955	1.9	57
96	Resonant Oscillations in Multiple-Filled Skutterudites. *Journal of Electronic Materials*, **2013**, 42, 1978-1981	1.9	4
95	Laser direct synthesis of graphene on quartz. *Carbon*, **2013**, 53, 374-379	10.4	48
94	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	1.3	9
93	Mode-Wise Thermal Conductivity of Bismuth Telluride. *Journal of Heat Transfer*, **2013**, 135,	1.8	40
92	Cross-plane thermoelectric transport in p-type La0.67Sr0.33MnO3/LaMnO3 oxide metal/semiconductor superlattices. *Journal of Applied Physics*, **2013**, 113, 193702	2.5	13
91	Laser direct writing of silicon field effect transistor sensors. *Applied Physics Letters*, **2013**, 102, 093504	3.4	7
90	Rational synthesis of ultrathin n-type Bi2Te3 nanowires with enhanced thermoelectric properties. *Nano Letters*, **2012**, 12, 56-60	11.5	245
89	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	4.9	12
88	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. *Journal of Heat Transfer*, **2012**, 134,	1.8	56
87	Laser direct growth of graphene on silicon substrate. *Applied Physics Letters*, **2012**, 100, 023110	3.4	46
86	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	2.5	10
85	Selective Contact Anneal Effects on Indium Oxide Nanowire Transistors using Femtosecond Laser. *Journal of Physical Chemistry C*, **2011**, 115, 17147-17153	3.8	13
84	Control of current saturation and threshold voltage shift in indium oxide nanowire transistors with femtosecond laser annealing. *ACS Nano*, **2011**, 5, 1095-101	16.7	26

83	Nanoscale ridge aperture as near-field transducer for heat-assisted magnetic recording. *Applied Optics*, **2011**, 50, G42-6	0.2	17
82	Complementary bowtie aperture for localizing and enhancing optical magnetic field. *Optics Letters*, **2011**, 36, 2764-6	3	30
81	Improving near-field confinement of a bowtie aperture using surface plasmon polaritons. *Applied Physics Letters*, **2011**, 98, 223106	3.4	26
80	Mechanism of vertical Ge nano wire nucleation on Si (111) during subeutectic annealing and growth. *Journal of Materials Research*, **2011**, 26, 2744-2748	2.5	5
79	Extraordinary transmission from high-gain nanoaperture antennas. *Applied Physics Letters*, **2010**, 96, 211116	3.4	18
78	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. *Nanotechnology*, **2010**, 21, 445705	3.4	75
77	Three-dimensional mapping of optical near field of a nanoscale bowtie antenna. *Optics Express*, **2010**, 18, 4961-71	3.3	22
76	Parallel optical nanolithography using nanoscale bowtie aperture array. *Optics Express*, **2010**, 18, 7369-75	3.3	36
75	Controlling phase change through ultrafast excitation of coherent phonons. *Optics Express*, **2010**, 18, 20498-504	3.3	20
74	Extraordinary infrared transmission through a periodic bowtie aperture array. *Optics Letters*, **2010**, 35, 992-4	3	26
73	Nanometer-level alignment using interferometric-spatial-phase-imaging (ISPI) during silicon nanowire growth **2010**,		4
72	Acoustic phonon scattering in Bi2Te3/Sb2Te3 superlattices. *Applied Physics Letters*, **2010**, 97, 083103	3.4	34
71	Enhanced machining of steel using femtosecond pulse pairs. *Applied Physics A: Materials Science and Processing*, **2010**, 101, 487-490	2.6	19
70	Resonant oscillation of misch-metal atoms in filled skutterudites. *Physical Review Letters*, **2009**, 102, 175508	7.4	39
69	Thermal conductivity of bismuth telluride nanowire array-epoxy composite. *Applied Physics Letters*, **2009**, 94, 223116	3.4	54
68	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. *Advanced Materials*, **2009**, 21, 4280-4283	24	13
67	High efficiency excitation of plasmonic waveguides with vertically integrated resonant bowtie apertures. *Optics Express*, **2009**, 17, 8036-45	3.3	18
66	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. *Nanoscale and Microscale Thermophysical Engineering*, **2008**, 12, 228-237	3.7	38

65	Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. *Journal of Physical Chemistry C*, **2008**, 112, 19727-19733	3.8	19
64	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. *Nanotechnology*, **2008**, 19, 125703	3.4	58
63	Ultrafast dynamics of photoexcited coherent phonon in Bi2Te3 thin films. *Applied Physics Letters*, **2008**, 92, 011108	3.4	46
62	Molecular dynamics simulation of ultrafast laser ablation of fused silica film. *Applied Physics A: Materials Science and Processing*, **2008**, 92, 849-852	2.6	15
61	Nanolithography using high transmission nanoscale ridge aperture probe. *Applied Physics A: Materials Science and Processing*, **2008**, 93, 881-884	2.6	20
60	Numerical analysis of the spectral response of an NSOM measurement. *Applied Physics B: Lasers and Optics*, **2008**, 93, 47-54	1.9	
59	Reduction in coherent phonon lifetime in Bi2Te3/Sb2Te3 superlattices. *Applied Physics Letters*, **2008**, 93, 113114	3.4	43
58	Optical Resonance in Bowtie-Shaped Nanoapertures. *Journal of Computational and Theoretical Nanoscience*, **2008**, 5, 214-220	0.3	6
57	Molecular Dynamics Calculation of Critical Point of Nickel. *International Journal of Thermophysics*, **2007**, 28, 9-19	2.1	14
56	Coherent phonon excitation in bismuth. *Applied Surface Science*, **2007**, 253, 6301-6304	6.7	19
55	Increased real contact in thermal interfaces: A carbon nanotube/foil material. *Applied Physics Letters*, **2007**, 90, 093513	3.4	124
54	High transmission nanoscale bowtie-shaped aperture probe for near-field optical imaging. *Applied Physics Letters*, **2007**, 90, 261105	3.4	63
53	Coupling of ultrafast laser energy to coherent phonons in bismuth. *Applied Physics Letters*, **2007**, 90, 251111	3.4	44
52	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. *Nanotechnology*, **2007**, 18, 385303	3.4	53
51	Enhanced optical near field from a bowtie aperture. *Applied Physics Letters*, **2006**, 88, 153110	3.4	88
50	Planar laser imaging and modeling of matrix-assisted pulsed-laser evaporation direct write in the bubble regime. *Journal of Applied Physics*, **2006**, 100, 033107	2.5	12
49	Ultrasensitive mass sensing using mode localization in coupled microcantilevers. *Applied Physics Letters*, **2006**, 88, 254102	3.4	235
48	Nanolithography using high transmission nanoscale bowtie apertures. *Nano Letters*, **2006**, 6, 361-4	11.5	192

47	Plasma formation in fused silica induced by loosely focused femtosecond laser pulse. *Applied Physics Letters*, **2006**, 88, 111502	3.4	10
46	Contact optical nanolithography using nanoscale C-shaped apertures. *Optics Express*, **2006**, 14, 9902-8	3.3	27
45	Ultrafast two-color ablation of fused silica. *Applied Physics A: Materials Science and Processing*, **2006**, 83, 49-52	2.6	10
44	Plasmonic effects in near-field optical transmission enhancement through a single bowtie-shaped aperture. *Applied Physics B: Lasers and Optics*, **2006**, 84, 3-9	1.9	72
43	Direct Writing of Conventional Thick Film Inks Using MAPLE-DW Process. *Journal of Laser Micro Nanoengineering*, **2006**, 1, 74-78	1	3
42	Ultrafast double-pulse ablation of fused silica. *Applied Physics Letters*, **2005**, 86, 151110	3.4	56
41	Obtaining super resolution light spot using surface plasmon assisted sharp ridge nanoaperture. *Applied Physics Letters*, **2005**, 86, 111106	3.4	106
40	Ultra-fast laser absorption and ablation dynamics in wide-band-gap dielectrics. *Applied Physics A: Materials Science and Processing*, **2005**, 81, 1627-1632	2.6	45
39	Laser bending for adjusting curvatures of hard disk suspensions. *Microsystem Technologies*, **2005**, 11, 1197-1203	1.7	11
38	Laser bending for high-precision curvature adjustment of microcantilevers. *Applied Physics Letters*, **2005**, 86, 021114	3.4	22
37	Femtosecond laser absorption in fused silica: Numerical and experimental investigation. *Physical Review B*, **2005**, 72,	3.3	81
36	Selective laser sintering of microwave components **2005**,		4
35	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	1.4	92
34	Development of a biosensor based on laser-fabricatedpolymer microcantilevers. *Applied Physics Letters*, **2004**, 85, 2423-2425	3.4	51
33	Laser-based fabrication of polymer micropump. *Journal of Micro/ Nanolithography, MEMS, and MOEMS*, **2004**, 3, 152	0.7	7
32	Phase Change Mechanisms in Pulsed Laser-Matter Interaction. *Materials Research Society Symposia Proceedings*, **2004**, 850, 193		1
31	Finite Element Analysis of Pulsed Laser Bending: The Effect of Melting and Solidification. *Journal of Applied Mechanics, Transactions ASME*, **2004**, 71, 321-326	2.7	15
30	Molecular Dynamics Study of Phase Change Mechanisms During Femtosecond Laser Ablation. *Journal of Heat Transfer*, **2004**, 126, 727-734	1.8	41

29	Simulation of microscale densification during femtosecond laser processing of dielectric materials. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 945-948	2.6	11
28	Molecular dynamic study of volumetric phase change induced by a femtosecond laser pulse. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 761-765	2.6	18
27	High Precision Microscale Bending by Pulsed and CW Lasers. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2003**, 125, 512-518	3.3	15
26	Nanoparticles Formed in Picosecond Laser Argon Crystal Interaction. *Journal of Heat Transfer*, **2003**, 125, 1147-1155	1.8	12
25	Molecular dynamics simulation of thermal and thermomechanical phenomena in picosecond laser material interaction. *International Journal of Heat and Mass Transfer*, **2003**, 46, 45-53	4.9	40
24	HEAT TRANSFER IN FEMTOSECOND LASER PROCESSING OF METAL. *Numerical Heat Transfer; Part A: Applications*, **2003**, 44, 219-232	2.3	105
23	Excimer laser fabrication of polymer microfluidic devices. *Journal of Laser Applications*, **2003**, 15, 255-260	2.1	50
22	Phase explosion and its time lag in nanosecond laser ablation. *Applied Surface Science*, **2002**, 197-198, 61-66	6.7	61
21	Heat transfer and phase change during picosecond laser ablation of nickel. *International Journal of Heat and Mass Transfer*, **2002**, 45, 3911-3918	4.9	38
20	Molecular Dynamics Simulation of Heat Transfer and Phase Change During Laser Material Interaction. *Journal of Heat Transfer*, **2002**, 124, 265-274	1.8	70
19	Non-Equilibrium Phase Change in Metal Induced by Nanosecond Pulsed Laser Irradiation. *Journal of Heat Transfer*, **2002**, 124, 293-298	1.8	71
18	THERMOELASTIC WAVE IN METAL INDUCED BY ULTRAFAST LASER PULSES. *Journal of Thermal Stresses*, **2002**, 25, 457-473	2.2	65
17	Thermoelastic wave induced by pulsed laser heating. *Applied Physics A: Materials Science and Processing*, **2001**, 73, 107-114	2.6	105
16	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	3.3	39
15	Photo-Acoustic Measurement of Thermal Conductivity of Thin Films and Bulk Materials. *Journal of Heat Transfer*, **2001**, 123, 138-144	1.8	68
14	Laser fabrication of micro-fluidic devices **2001**,		1
13	Phase change phenomena during high power laser-materials interaction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 292, 162-168	5.3	22
12	Interface kinetics during pulsed laser ablation. *Applied Physics A: Materials Science and Processing*, **1999**, 69, S869-S873	2.6	24

11	Thermal Conductivity of Nanoparticle - Fluid Mixture. *Journal of Thermophysics and Heat Transfer*, **1999**, 13, 474-480	1.3	1670
10	Generalized theory of the photoacoustic effect in a multilayer material. *Journal of Applied Physics*, **1999**, 86, 3953-3958	2.5	98
9	Pulsed laser machining of thin films for microsensor development **1999**,		1
8	Explosive phase transformation in excimer laser ablation. *Applied Surface Science*, **1998**, 127-129, 111-116	6.7	99
7	Heat and Mass Transfer in Pulsed-Laser-Induced Phase Transformations. *Advances in Heat Transfer*, **1996**, 28, 75-144	1.9	8
6	Perturbation of the substrate temperature by the impingement of laser ablated particles. *Journal of Applied Physics*, **1995**, 77, 6715-6717	2.5	9
5	Measurement of solid□quid interface temperature during pulsed excimer laser melting of polycrystalline silicon films. *Applied Physics Letters*, **1994**, 65, 1745-1747	3.4	26
4	Transient heating and melting transformations in argon-ion laser irradiation of polysilicon films. *Journal of Applied Physics*, **1993**, 73, 8088-8096	2.5	5
3	High temperature radiative properties of thin polysilicon films at the □= 0.6328 □m wavelength. *International Journal of Heat and Mass Transfer*, **1993**, 36, 4163-4172	4.9	13
2	Temporal profile of optical transmission probe for pulsed-laser heating of amorphous silicon films. *Applied Physics Letters*, **1992**, 61, 749-751	3.4	23
1	Selective laser sintering of patch antennas on FR4		2