

Heungsoo Kim

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.

118
papers

6,483
citations

38
h-index

79
g-index

130
ext. papers

6,963
ext. citations

3.4
avg. IF

5.4
L-index

#	Paper	IF	Citations
118	Laser Processing of Energy Storage Materials 2021 , 59-73		
117	Tunable permittivity of La-doped BaSnO ₃ thin films for near- and mid-infrared plasmonics. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 365103	3	4
116	Light tunable plasmonic metasurfaces. <i>Optics Express</i> , 2020 , 28, 22891-22898	3.3	1
115	ZnO Nanoparticle/Graphene Hybrid Photodetectors via Laser Fragmentation in Liquid. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
114	Superconducting properties of tin-based ENZ and hyperbolic metamaterials. <i>Physica C: Superconductivity and Its Applications</i> , 2019 , 565, 1353511	1.3	1
113	Control of metal-insulator transition temperature in VO ₂ thin films grown on RuO ₂ /TiO ₂ templates by strain modification. <i>AIP Advances</i> , 2019 , 9, 015302	1.5	7
112	VO-based switchable radiator for spacecraft thermal control. <i>Scientific Reports</i> , 2019 , 9, 11329	4.9	26
111	Hierarchical laser patterning of indium tin oxide thin films. <i>Optical Materials Express</i> , 2019 , 9, 3035	2.6	8
110	Thermally Induced Magnetic Anisotropy in Nickel Films on Surface Acoustic Wave Devices. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	10
109	Laser Transfer of Entire Structures and Functional Devices 2018 , 427-443		
108	Congruent LIFT with High-Viscosity Nanopastes 2018 , 227-250		
107	Observation of the out-of-plane magnetization in a mesoscopic ferromagnetic structure superjacent to a superconductor. <i>Applied Physics Letters</i> , 2018 , 113, 162601	3.4	2
106	Strain Effects in Epitaxial VO Thin Films on Columnar Buffer-Layer TiO/AlO Virtual Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1577-1584	9.5	37
105	Laser processing of VO ₂ thin films for THz devices and metamaterials 2017 ,		1
104	Ultrafast Phase Transition Dynamics in Strained Vanadium Dioxide Films. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700810	4.6	9
103	Strain effect in epitaxial VO ₂ thin films grown on sapphire substrates using SnO ₂ buffer layers. <i>AIP Advances</i> , 2017 , 7, 105116	1.5	12
102	Laser-processing of VO ₂ thin films synthesized by polymer-assisted-deposition. <i>Applied Surface Science</i> , 2017 , 397, 152-158	6.7	13

101	Laser additive manufacturing of embedded electronics 2017 , 319-350		3
100	Enhanced superconductivity in aluminum-based hyperbolic metamaterials. <i>Scientific Reports</i> , 2016 , 6, 34140	4.9	19
99	Laser-induced Forward Transfer of Ag Nanopaste. <i>Journal of Visualized Experiments</i> , 2016 , e53728	1.6	8
98	Laser-induced forward transfer (LIFT) of congruent voxels. <i>Applied Surface Science</i> , 2016 , 374, 42-48	6.7	21
97	Laser 3D micro-manufacturing. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 223001	3	68
96	Polycrystalline VO ₂ thin films via femtosecond laser processing of amorphous VO _x . <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	7
95	Laser printing and femtosecond laser structuring of electrode materials for the manufacturing of 3D lithium-ion micro-batteries 2016 ,		2
94	All-optical short pulse translation through cross-phase modulation in a VO ₂ thin film. <i>Optics Letters</i> , 2016 , 41, 238-41	3	1
93	Broadband terahertz generation using the semiconductor-metal transition in VO ₂ . <i>AIP Advances</i> , 2016 , 6, 015113	1.5	15
92	Active terahertz metamaterials based on the phase transition of VO ₂ thin films. <i>Thin Solid Films</i> , 2015 , 596, 45-50	2.2	34
91	Laser forward transfer using structured light. <i>Optics Express</i> , 2015 , 23, 422-30	3.3	28
90	Spatially modulated laser pulses for printing electronics. <i>Applied Optics</i> , 2015 , 54, F70-7	0.2	16
89	Laser forward transfer of solder paste for microelectronics fabrication 2015 ,		4
88	Laser-induced forward transfer of silver nanopaste for microwave interconnects. <i>Applied Surface Science</i> , 2015 , 331, 254-261	6.7	30
87	Optimization of the semiconductor-metal transition in VO ₂ epitaxial thin films as a function of oxygen growth pressure. <i>Applied Physics Letters</i> , 2014 , 104, 081913	3.4	53
86	Laser-printing and femtosecond-laser structuring of LiMn ₂ O ₄ composite cathodes for Li-ion microbatteries. <i>Journal of Power Sources</i> , 2014 , 255, 116-124	8.9	62
85	Experimental demonstration of superconducting critical temperature increase in electromagnetic metamaterials. <i>Scientific Reports</i> , 2014 , 4, 7321	4.9	25
84	Laser embedding electronics on 3D printed objects 2014 ,		5

83	Fs-laser microstructuring of laser-printed LiMn ₂ O ₄ electrodes for manufacturing of 3D microbatteries 2014 ,		1
82	Laser-printed/structured thick-film electrodes for Li-ion microbatteries 2014 ,		2
81	Laser materials processing for micropower source applications: a review. <i>Journal of Photonics for Energy</i> , 2014 , 4, 040992	1.2	11
80	Generation of transparent conductive electrodes by laser consolidation of LIFT printed ITO nanoparticle layers. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 799-805	2.6	18
79	Laser printing of conformal and multi-level 3D interconnects. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 5-8	2.6	28
78	Impact of reduced dimensionality on the magnetic and magnetocaloric response of La _{0.7} Ca _{0.3} MnO ₃ . <i>Applied Physics Letters</i> , 2013 , 102, 062414	3.4	110
77	Laser processing of 2D and 3D metamaterial structures 2013 ,		2
76	Optimization of Al-doped ZnO films for low loss plasmonic materials at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2013 , 102, 171103	3.4	70
75	Laser transfer of reconfigurable patterns with a spatial light modulator 2013 ,		7
74	High-speed video study of laser-induced forward transfer of silver nano-suspensions. <i>Journal of Applied Physics</i> , 2013 , 114, 064910	2.5	46
73	Laser Forward Transfer of Functional Materials for Digital Fabrication of Microelectronics. <i>Journal of Imaging Science and Technology</i> , 2013 , 57, 1-8	1.2	21
72	Optimization of laser printing of nanoparticle suspensions for microelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 106, 471-478	2.6	50
71	Enhancement of carrier-mediated ferromagnetism in Zr/Fe-codoped In ₂ O ₃ films. <i>Applied Physics Letters</i> , 2012 , 100, 142403	3.4	8
70	Room temperature ferromagnetism in transparent Fe-doped In ₂ O ₃ films. <i>Applied Physics Letters</i> , 2012 , 100, 032404	3.4	30
69	Realization of metamaterial structures by non-lithographic processes 2012 ,		2
68	Laser-Printed and Processed LiCoO ₂ Cathode Thick Films for Li-Ion Microbatteries. <i>Journal of Laser Micro Nanoengineering</i> , 2012 , 7, 320-325	1	30
67	F-doped SnO ₂ thin films grown on flexible substrates at low temperatures by pulsed laser deposition. <i>Thin Solid Films</i> , 2011 , 520, 497-500	2.2	16
66	Laser forward transfer based on a spatial light modulator. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 21-26	2.6	36

65	Thermal expansion studies of indium-tin oxide. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 928-930	3	3
64	Laser-printed interdigitated Ag electrodes for organic thin film transistors. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 085101	3	26
63	Fabrication of terahertz metamaterials by laser printing. <i>Optics Letters</i> , 2010 , 35, 4039-41	3	42
62	Laser printing of multi-layered polymer/metal heterostructures for electronic and MEMS devices. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 711-716	2.6	35
61	Three-dimensional printing of interconnects by laser direct-write of silver nanopastes. <i>Advanced Materials</i> , 2010 , 22, 4462-6	24	118
60	Laser forward transfer of silver electrodes for organic thin-film transistors. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 441-445	2.6	35
59	Laser decal transfer of freestanding microcantilevers and microbridges. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 513-519	2.6	40
58	Laser decal transfer of electronic materials with thin film characteristics 2008 ,		18
57	Transparent conducting F-doped SnO ₂ thin films grown by pulsed laser deposition. <i>Thin Solid Films</i> , 2008 , 516, 5052-5056	2.2	169
56	Pulsed laser deposition of Zr ⁴⁺ codoped p-type ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 593-598	2.6	13
55	Optimization of F-doped SnO ₂ electrodes for organic photovoltaic devices. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 521-526	2.6	40
54	Laser Forward Transfer of Electronic and Power Generating Materials 2007 , 339-373		9
53	Laser-printed thick-film electrodes for solid-state rechargeable Li-ion microbatteries. <i>Journal of Power Sources</i> , 2007 , 165, 413-419	8.9	81
52	Applications of laser direct-write for embedding microelectronics 2007 ,		5
51	Assembly and integration of thin bare die using laser direct-write 2007 ,		8
50	Fabrication of Zr ⁴⁺ codoped p-type ZnO thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007 , 90, 203508	3.4	37
49	Functionalization of indium tin oxide. <i>Langmuir</i> , 2006 , 22, 11113-25	4	56
48	Transparent Conducting Oxide Films 2006 , 239-260		3

47	Laser Transferable Polymer-Ionic Liquid Separator/Electrolytes For Solid-State Rechargeable Lithium-Ion Microbatteries. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A69-A71		28
46	Laser printing of nanocomposite solid-state electrolyte membranes for Li micro-batteries. <i>Applied Surface Science</i> , 2006 , 252, 8212-8216	6.7	31
45	Laser-sintered mesoporous TiO ₂ electrodes for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 83, 73-76	2.6	86
44	Laser direct-write of embedded electronic components and circuits 2005 ,		13
43	Transparent conducting Sb-doped SnO ₂ thin films grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2004 , 84, 218-220	3.4	140
42	Polymer Electrodes for Flexible Organic Light-Emitting Devices. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 814, 108		1
41	Dye-sensitized solar cells using laser processing techniques 2004 ,		2
40	Application of laser printing to mammalian cells. <i>Thin Solid Films</i> , 2004 , 453-454, 383-387	2.2	171
39	Rapid prototyping of micropower sources by laser direct-write. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 783-786	2.6	33
38	Laser direct write of planar alkaline microbatteries. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 417-420	2.6	15
37	Laser processing of nanocrystalline TiO ₂ films for dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2004 , 85, 464-466	3.4	79
36	Laser printing of pluripotent embryonal carcinoma cells. <i>Tissue Engineering</i> , 2004 , 10, 483-91		243
35	Application of laser direct-write techniques for embedding electronic and micropower components 2004 ,		7
34	Manufacture of mesoscale energy storage systems by laser-direct write 2004 ,		1
33	High Quality Sn-Doped In ₂ O ₃ Films Grown by Pulsed Laser Deposition for Organic Light-Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 780, 161		
32	Anisotropic in-plane strain in W-doped (Ba, Sr)TiO ₃ thin films deposited by pulsed-laser deposition on (001)MgO. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 841-846	2.6	17
31	Synthesis of In ₂ O ₃ /ZnO transparent conducting oxide films. <i>Applied Surface Science</i> , 2003 , 208-209, 611-614	6.7	9
30	Effect of annealing on the electrical properties and morphology of a conducting polymer used as an anode in organic light-emitting devices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 2522-2528	2.6	59

29	Anode material based on Zr-doped ZnO thin films for organic light-emitting diodes. <i>Applied Physics Letters</i> , 2003 , 83, 3809-3811	3.4	75
28	Epitaxial growth of Al-doped ZnO thin films grown by pulsed laser deposition. <i>Thin Solid Films</i> , 2002 , 420-421, 107-111	2.2	160
27	Doped ZnO thin films as anode materials for organic light-emitting diodes. <i>Thin Solid Films</i> , 2002 , 420-421, 539-543	2.2	192
26	Picoliter-scale protein microarrays by laser direct write. <i>Biotechnology Progress</i> , 2002 , 18, 1126-9	2.8	75
25	Highly oriented indium tin oxide films for high efficiency organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2002 , 91, 5371-5376	2.5	49
24	Enhanced superconductivity in metallic oxides near the metal-insulator transition. <i>Physical Review B</i> , 2002 , 66,	3.3	12
23	Synthesis of bulk $\text{In}_2\text{O}_3/\text{Sn}_2\text{O}_3$ and their transparent conducting oxide films. <i>Journal of Applied Physics</i> , 2002 , 92, 227-229	2.5	10
22	Cell-by-cell construction of living tissue 2002 ,		3
21	Highly oriented indium tin oxide thin films for organic light-emitting diodes 2002 ,		1
20	Molecular organic light-emitting diodes using highly conducting polymers as anodes. <i>Applied Physics Letters</i> , 2002 , 80, 3844-3846	3.4	299
19	Transparent conducting indium tin oxide thin film grown on flexible substrate by pulsed-laser deposition for organic light-emitting devices 2001 ,		1
18	Presence of a pseudo-gap feature in the density of states of disordered W/Si alloys. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 364-365, 427-429	1.3	1
17	Coulomb interaction in disordered metals and HTSC. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 364-365, 471-474	1.3	7
16	Transparent conducting Zr-doped In_2O_3 thin films for organic light-emitting diodes. <i>Applied Physics Letters</i> , 2001 , 78, 1050-1052	3.4	108
15	New insight into enhanced superconductivity in metals near the metal-insulator transition. <i>Physical Review Letters</i> , 2001 , 87, 197004	7.4	46
14	Novel Laser-Based Deposition of Active Protein Thin Films. <i>Langmuir</i> , 2001 , 17, 3472-3479	4	118
13	Indium tin oxide thin films grown on flexible plastic substrates by pulsed-laser deposition for organic light-emitting diodes. <i>Applied Physics Letters</i> , 2001 , 79, 284-286	3.4	221
12	Effect of film thickness on the properties of indium tin oxide thin film grown by pulsed-laser deposition for organic light-emitting diodes 2000 , 3933, 140		1

11	Effect of aluminum doping on zinc oxide thin films grown by pulsed laser deposition for organic light-emitting devices. <i>Thin Solid Films</i> , 2000 , 377-378, 798-802	2.2	277
10	Growth of epitaxial doped strontium sulfide thin films by pulsed laser deposition. <i>Thin Solid Films</i> , 2000 , 377-378, 803-808	2.2	15
9	Transparent conducting films of $\text{In}_2\text{O}_3/\text{rO}_2$, SnO_2/rO_2 and ZnO/rO_2 . <i>Thin Solid Films</i> , 2000 , 377-378, 750-754	2.2	39
8	Optical and electrical properties of transparent conducting $\text{In}_2\text{O}_3/\text{rO}_2$ films. <i>Journal of Materials Research</i> , 2000 , 15, 21-24	2.5	20
7	Transparent conducting films of ZnO/rO_2 : Structure and properties. <i>Journal of Applied Physics</i> , 2000 , 88, 6564-6566	2.5	50
6	Effect of film thickness on the properties of indium tin oxide thin films. <i>Journal of Applied Physics</i> , 2000 , 88, 6021-6025	2.5	260
5	Transparent conducting aluminum-doped zinc oxide thin films for organic light-emitting devices. <i>Applied Physics Letters</i> , 2000 , 76, 259-261	3.4	394
4	Epitaxial growth of Zn_2Y ferrite films by pulsed laser deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 3111-3114	2.9	5
3	Electrical and optical properties of indium tin oxide thin films grown by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S447-S450	2.6	49
2	Electrical, optical, and structural properties of indium tin oxide thin films for organic light-emitting devices. <i>Journal of Applied Physics</i> , 1999 , 86, 6451-6461	2.5	990
1	Indium tin oxide thin films for organic light-emitting devices. <i>Applied Physics Letters</i> , 1999 , 74, 3444-3446	3.4	304