

Seungho Park

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Experimental Activation Energy for Solid Phase Crystallization of Amorphous Silicon Thin Films at Elevated Temperatures Using Vertical-Cavity Surface-Emitting Laser-Based Infrared Heating. ECS Journal of Solid State Science and Technology, 2022, 11, 043015.	1.8	2
2	Laser lift-off of polyimide thin-film from glass carrier using DPSS laser pulses of top-hat square profiles. Optics and Laser Technology, 2021, 142, 107245.	4.6	7
3	Ablation of polyimide thin-film on carrier glass using 355nm and 37ns laser pulses. International Journal of Heat and Mass Transfer, 2020, 147, 118896.	4.8	18
4	Applying Tersoff-potential and bond-softening models in a molecular dynamics study of femtosecond laser processing. Journal of Applied Physics, 2019, 126, 045109.	2.5	3
5	Applications of vertical cavity surface emitting lasers for low-pressure chemical vapor deposition reactors. International Journal of Heat and Mass Transfer, 2019, 141, 245-255.	4.8	5
6	Numerical study on nitric oxide transport in human nasal airways. Journal of Mechanical Science and Technology, 2018, 32, 1423-1430.	1.5	3
7	Flash lamp annealing of indium tin oxide thin-films deposited on polyimide backplanes. Thin Solid Films, 2017, 628, 88-95.	1.8	15
8	Application of Flash Lamp Annealing on Nitrogen-Doped Amorphous Indium-Gallium-Zinc-Oxide Thin Film Transistors. ECS Journal of Solid State Science and Technology, 2017, 6, P778-P785.	1.8	3
9	Xe-arc flash annealing of indium tin oxide thin-films prepared on glass backplanes. International Journal of Heat and Mass Transfer, 2015, 91, 543-551.	4.8	17
10	Scanning multishot irradiations on a large-area glass substrate for Xe-Arc flash lamp crystallization of amorphous silicon thin-film. International Journal of Thermal Sciences, 2015, 91, 1-11.	4.9	11
11	Fabrication of three-dimensional functionally graded materials using controlled polycaprolactone powder characteristics and laser material processing. Journal of Composite Materials, 2015, 49, 2733-2743.	2.4	1
12	Rapid Activation of Phosphorous-Implanted Polycrystalline Si Thin Films on Glass Substrates Using Flash-Lamp Annealing. ECS Journal of Solid State Science and Technology, 2014, 3, P391-P395.	1.8	6
13	Thermal warpage of a glass substrate during Xe-arc flash lamp crystallization of amorphous silicon thin-film. International Journal of Thermal Sciences, 2014, 83, 25-32.	4.9	8
14	Numerical and experimental studies on sub-wavelength focusing in nano-slit arrays of metallic stripes with variable widths. Vacuum, 2014, 107, 284-290.	3.5	1
15	Experimentation and simulation of tin oxide deposition on glass based on the SnCl ₄ hydrolysis in an in-line atmospheric pressure chemical vapor deposition reactor. Thin Solid Films, 2014, 550, 114-120.	1.8	2
16	Effect of flash lamp annealing on electrical activation in boron-implanted polycrystalline Si thin films. Materials Research Bulletin, 2014, 58, 164-168.	5.2	9
17	Electrohydrodynamic instability of dielectric liquid between concentric circular cylinders subjected to unipolar charge injection. Journal of Mechanical Science and Technology, 2013, 27, 461-467.	1.5	19
18	Thermal analysis on heat treatment of glass backplanes for large-scale displays in a precompaction furnace. International Journal of Thermal Sciences, 2013, 71, 324-332.	4.9	2

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19	Crystallization of amorphous silicon thin-film on glass substrate preheated at 650 Å°C using Xe arc flash of 400 1/4s. Thin Solid Films, 2012, 520, 6581-6588.	1.8	23
20	Application of nano-pulsed Nd:YAG laser to crystallization of amorphous Si thin films for next generation flat-panel display. International Journal of Precision Engineering and Manufacturing, 2012, 13, 587-591.	2.2	2
21	Molecular dynamics study on bulk melting induced by ultrashort pulse laser. Journal of Mechanical Science and Technology, 2011, 25, 449-456.	1.5	2
22	Thermal deformation of glass backplanes during Joule-heating induced crystallization process. Vacuum, 2011, 85, 847-852.	3.5	12
23	In-situ observation of phase transformation in amorphous silicon during Joule-heating induced crystallization process. Thin Solid Films, 2011, 519, 5516-5522.	1.8	17
24	Femtosecond Laser Pulse Train Effect on Optical Characteristics and Nonequilibrium Heat Transfer in Thin Metal Films. Materials Transactions, 2010, 51, 1156-1162.	1.2	19
25	Design and fabrication of twisting-type thermal actuation mechanism for micromirrors. Sensors and Actuators A: Physical, 2010, 159, 79-87.	4.1	24
26	Supergrains produced by lateral growth using Joule-heating induced crystallization without artificial control. Applied Physics Letters, 2010, 96, 052105.	3.3	15
27	Substituent Effect on Color Tuning of Red Light Emission in Photoluminescence and Electroluminescence of Red Fluorophore. Journal of Nanoscience and Nanotechnology, 2010, 10, 6805-6810.	0.9	1
28	Design and analysis of a twisting-type thermal actuator for micromirrors. Journal of Mechanical Science and Technology, 2009, 23, 1536-1543.	1.5	9
29	Design and Fabrication of Low-Voltage Twisting-Type Thermal Actuators for Micromirrors. , 2009, , .		0
30	Development of a Quantitative Nanoscale Thermal Conductivity Profiling Technique by the Removal of Influence Due to Heat Transfer Through the Air. , 2009, , .		0
31	Development of Robust Batch-Fabrication Process for High Performance SThM Probe and Quantitative Performance Evaluation. , 2009, , .		2
32	Behaviour of water molecules in Nafion 117 for polymer electrolyte membrane fuel cell by molecular dynamics simulation. Molecular Simulation, 2008, 34, 1237-1244.	2.0	13
33	Movement of hydrogen molecules in pristine, hydrogenated and nitrogen-doped single-walled carbon nanotubes. Molecular Simulation, 2008, 34, 1245-1252.	2.0	4
34	Analysis and Design of Thermal Double-Cantilever Bimorph Actuators for Rotating-Type Micromirrors. , 2008, , .		0
35	Wave Interference Effect in Thin Film Structures under Pulsed Laser Irradiation. Materials Transactions, 2008, 49, 1880-1888.	1.2	5
36	Exact locating of sub-surface microelectronic structures using scanning thermal-wave microscopy. , 2008, , .		0

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37	Transport of Hydrogen Molecules in Single-Walled Carbon Nanotube. , 2008, , .		0
38	Quantitative Scanning Thermal Microscopy With Double Scan Technique. , 2008, , .		2
39	Hydrogen Transport in Single-Walled Carbon Nanotube by Molecular Dynamics Simulation. , 2007, , 33.		0
40	Femtosecond Laser Pulse Train Effects on Optical Characteristics and Nonequilibrium Energy Transport in Metal Thin Films Considering Quantum Effects. , 2007, , .		1
41	Molecular Dynamics Simulation of Water Behavior as a Function of Temperatures and Monomer Numbers in Nafion 117. , 2007, , .		0
42	A Molecular Dynamics Study on Stability and Thermophysical Properties of Nanoscale Liquid Threads. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 283-304.	2.6	12
43	Fokker-Planck Approach to Laser-Induced Damage in Dielectrics with Subpicosecond Pulses. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 217-232.	2.6	4
44	Molecular dynamics study of thin film instability and nanostructure formation. International Journal of Heat and Mass Transfer, 2006, 49, 879-888.	4.8	4
45	A numerical study on ultra-short pulse laser-induced damage on dielectrics using the Fokker-Planck equation. International Journal of Heat and Mass Transfer, 2006, 49, 1493-1500.	4.8	13
46	Fokker-Planck Approach to Photon-Electron Interactions in Dielectrics During Ultrafast-Pulse Laser Ablation. , 2005, , 303.		0
47	Local flow speed measurement using tunable ac thermal anemometry. Journal of Mechanical Science and Technology, 2005, 19, 1449-1459.	1.5	3
48	External Force Field-Induced Crystallization of Amorphous Materials: A Molecular Dynamics Study. Microscale Thermophysical Engineering, 2005, 9, 317-329.	1.2	2
49	Molecular Dynamics Simulation Study of Convective Heat Transport in a Nanoscale Channel. , 2005, , 427.		0
50	Optical and Heat Transfer Characteristics in a Rapid Thermal Annealing System for LCD Manufacturing Procedures. , 2004, , 527.		0
51	Molecular dynamics study on external field induced crystallization of amorphous argon structure. Journal of Mechanical Science and Technology, 2004, 18, 2042-2048.	0.4	0
52	Finite element modeling of adhesive contact using molecular potential. Tribology International, 2004, 37, 763-769.	5.9	52
53	Heterogeneous crystallization of amorphous silicon expedited by external force fields: a molecular dynamics study. Superlattices and Microstructures, 2004, 35, 205-215.	3.1	7
54	Tunable AC thermal anemometry. Superlattices and Microstructures, 2004, 35, 325-338.	3.1	6

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55	NUMERICAL ANALYSIS ON HEAT TRANSFER CHARACTERISTICS OF A SILICON FILM IRRADIATED BY PICO-TO FEMTOSECOND PULSE LASERS. Numerical Heat Transfer; Part A: Applications, 2003, 44, 833-850.	2.1	36
56	Molecular dynamics simulation of adhesion processes. Journal of Mechanical Science and Technology, 2002, 16, 1440.	0.4	2
57	Characterization of thin liquid films using molecular dynamics simulation. Journal of Mechanical Science and Technology, 2002, 16, 1477-1484.	0.4	6
58	Molecular dynamics investigation of thickness effect on liquid films. Journal of Chemical Physics, 2000, 113, 5917-5923.	3.0	87
59	Thermal analysis on voltage responses of high-T _c superconducting thin-films exposed to a pulse laser beam. Journal of Mechanical Science and Technology, 1998, 12, 143-152.	0.4	1