

Seungho Park

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4972365/publications.pdf>

Version: 2024-02-01

59
papers

518
citations

687363

13
h-index

713466

21
g-index

59
all docs

59
docs citations

59
times ranked

429
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics investigation of thickness effect on liquid films. Journal of Chemical Physics, 2000, 113, 5917-5923.	3.0	87
2	Finite element modeling of adhesive contact using molecular potential. Tribology International, 2004, 37, 763-769.	5.9	52
3	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
4	Design and fabrication of twisting-type thermal actuation mechanism for micromirrors. Sensors and Actuators A: Physical, 2010, 159, 79-87.	4.1	24
5	Crystallization of amorphous silicon thin-film on glass substrate preheated at 650 Å°C using Xe arc flash of 400 1¼s. Thin Solid Films, 2012, 520, 6581-6588.	1.8	23
6	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
7	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
8	Ablation of polyimide thin-film on carrier glass using 355Å€nm and 37Å€ns laser pulses. International Journal of Heat and Mass Transfer, 2020, 147, 118896.	4.8	18
9	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
10	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
11	Supergrains produced by lateral growth using Joule-heating induced crystallization without artificial control. Applied Physics Letters, 2010, 96, 052105.	3.3	15
12	Flash lamp annealing of indium tin oxide thin-films deposited on polyimide backplanes. Thin Solid Films, 2017, 628, 88-95.	1.8	15
13	A numerical study on ultra-short pulse laser-induced damage on dielectrics using the FokkerÅ€Planck equation. International Journal of Heat and Mass Transfer, 2006, 49, 1493-1500.	4.8	13
14	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
15	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
16	Thermal deformation of glass backplanes during Joule-heating induced crystallization process. Vacuum, 2011, 85, 847-852.	3.5	12
17	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
18	Design and analysis of a twisting-type thermal actuator for micromirrors. Journal of Mechanical Science and Technology, 2009, 23, 1536-1543.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Effect of flash lamp annealing on electrical activation in boron-implanted polycrystalline Si thin films. <i>Materials Research Bulletin</i> , 2014, 58, 164-168.	5.2	9
20	Thermal warpage of a glass substrate during Xe-arc flash lamp crystallization of amorphous silicon thin-film. <i>International Journal of Thermal Sciences</i> , 2014, 83, 25-32.	4.9	8
21	Heterogeneous crystallization of amorphous silicon expedited by external force fields: a molecular dynamics study. <i>Superlattices and Microstructures</i> , 2004, 35, 205-215.	3.1	7
22	Laser lift-off of polyimide thin-film from glass carrier using DPSS laser pulses of top-hat square profiles. <i>Optics and Laser Technology</i> , 2021, 142, 107245.	4.6	7
23	Characterization of thin liquid films using molecular dynamics simulation. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 1477-1484.	0.4	6
24	Tunable AC thermal anemometry. <i>Superlattices and Microstructures</i> , 2004, 35, 325-338.	3.1	6
25	Rapid Activation of Phosphorous-Implanted Polycrystalline Si Thin Films on Glass Substrates Using Flash-Lamp Annealing. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, P391-P395.	1.8	6
26	Wave Interference Effect in Thin Film Structures under Pulsed Laser Irradiation. <i>Materials Transactions</i> , 2008, 49, 1880-1888.	1.2	5
27	Applications of vertical cavity surface emitting lasers for low-pressure chemical vapor deposition reactors. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 245-255.	4.8	5
28	Fokker-Planck Approach to Laser-Induced Damage in Dielectrics with Subpicosecond Pulses. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2006, 10, 217-232.	2.6	4
29	Molecular dynamics study of thin film instability and nanostructure formation. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 879-888.	4.8	4
30	Movement of hydrogen molecules in pristine, hydrogenated and nitrogen-doped single-walled carbon nanotubes. <i>Molecular Simulation</i> , 2008, 34, 1245-1252.	2.0	4
31	Local flow speed measurement using tunable ac thermal anemometry. <i>Journal of Mechanical Science and Technology</i> , 2005, 19, 1449-1459.	1.5	3
32	Application of Flash Lamp Annealing on Nitrogen-Doped Amorphous Indium-Gallium-Zinc-Oxide Thin Film Transistors. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, P778-P785.	1.8	3
33	Numerical study on nitric oxide transport in human nasal airways. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 1423-1430.	1.5	3
34	Applying Tersoff-potential and bond-softening models in a molecular dynamics study of femtosecond laser processing. <i>Journal of Applied Physics</i> , 2019, 126, 045109.	2.5	3
35	Molecular dynamics simulation of adhesion processes. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 1440.	0.4	2
36	External Force Field-Induced Crystallization of Amorphous Materials: A Molecular Dynamics Study. <i>Microscale Thermophysical Engineering</i> , 2005, 9, 317-329.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Development of Robust Batch-Fabrication Process for High Performance SThM Probe and Quantitative Performance Evaluation. , 2009, , .		2
38	Molecular dynamics study on bulk melting induced by ultrashort pulse laser. Journal of Mechanical Science and Technology, 2011, 25, 449-456.	1.5	2
39	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
40	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
41	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
42	Quantitative Scanning Thermal Microscopy With Double Scan Technique. , 2008, , .		2
43	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
44	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
45	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
46	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
47	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
48	Femtosecond Laser Pulse Train Effects on Optical Characteristics and Nonequilibrium Energy Transport in Metal Thin Films Considering Quantum Effects. , 2007, , .		1
49	Optical and Heat Transfer Characteristics in a Rapid Thermal Annealing System for LCD Manufacturing Procedures. , 2004, , 527.		0
50	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
51	Fokker-Planck Approach to Photon-Electron Interactions in Dielectrics During Ultrafast-Pulse Laser Ablation. , 2005, , 303.		0
52	Molecular Dynamics Simulation Study of Convective Heat Transport in a Nanoscale Channel. , 2005, , 427.		0
53	Hydrogen Transport in Single-Walled Carbon Nanotube by Molecular Dynamics Simulation. , 2007, , 33.		0
54	Analysis and Design of Thermal Double-Cantilever Bimorph Actuators for Rotating-Type Micromirrors. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
55	Exact locating of sub-surface microelectronic structures using scanning thermal-wave microscopy. , 2008, , .		0
56	Design and Fabrication of Low-Voltage Twisting-Type Thermal Actuators for Micromirrors. , 2009, , .		0
57	Development of a Quantitative Nanoscale Thermal Conductivity Profiling Technique by the Removal of Influence Due to Heat Transfer Through the Air. , 2009, , .		0
58	Molecular Dynamics Simulation of Water Behavior as a Function of Temperatures and Monomer Numbers in Nafion 117. , 2007, , .		0
59	Transport of Hydrogen Molecules in Single-Walled Carbon Nanotube. , 2008, , .		0