

Songkil K Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7591444/publications.pdf>

Version: 2024-02-01

53
papers

1,160
citations

489802

18
h-index

445137

33
g-index

54
all docs

54
docs citations

54
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of filament winding patterns for elbows with various cross-sections. <i>Journal of Composite Materials</i> , 2022, 56, 313-327.	1.2	3
2	Correlating surface structures and nanoscale friction of CVD Multi-Layered graphene. <i>Applied Surface Science</i> , 2022, 584, 152572.	3.1	4
3	Selective patterning of out-of-plane piezoelectricity in MoTe ₂ via focused ion beam. <i>Nano Energy</i> , 2021, 79, 105451.	8.2	17
4	Nanoscale friction of CVD single-layer MoS ₂ with controlled defect formation. <i>Surfaces and Interfaces</i> , 2021, 26, 101437.	1.5	5
5	Automatic path generation for tractor-trailers according to the ramp slope of Ro-Ro ships. <i>Journal of Computational Design and Engineering</i> , 2021, 8, 316-329.	1.5	4
6	High-Resolution Three-Dimensional Sculpting of Two-Dimensional Graphene Oxide by E-Beam Direct Write. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39595-39601.	4.0	6
7	Uniform-thickness electrospun nanofiber mat production system based on real-time thickness measurement. <i>Scientific Reports</i> , 2020, 10, 20847.	1.6	13
8	Direct Write of 3D Nanoscale Mesh Objects with Platinum Precursor via Focused Helium Ion Beam Induced Deposition. <i>Micromachines</i> , 2020, 11, 527.	1.4	15
9	Direct matter disassembly via electron beam control: electron-beam-mediated catalytic etching of graphene by nanoparticles. <i>Nanotechnology</i> , 2020, 31, 245303.	1.3	4
10	Manufacture of Tungsten Heavy Alloy Tube by Diffusion Bonding of Semicircular Tubes. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 699-711.	1.2	1
11	Multi-Model Imaging of Local Chemistry and Ferroic Properties of Hybrid Organic-Inorganic Perovskites. <i>Microscopy and Microanalysis</i> , 2019, 25, 2076-2077.	0.2	3
12	Multimode jetting unlocks a trade-off between nanostructure morphology and composition in focused electron beam induced deposition. <i>Materials Today Communications</i> , 2019, 21, 100645.	0.9	1
13	High Resolution Multimodal Chemical Imaging Platform for Organics and Inorganics. <i>Analytical Chemistry</i> , 2019, 91, 12142-12148.	3.2	16
14	Toward high-accuracy and high-applicability of a practical model to predict effective thermal conductivity of particle-reinforced composites. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 863-872.	2.5	6
15	Non-equilibrium adatom thermal state enables rapid additive nanomanufacturing. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10449-10456.	1.3	3
16	Reply to: On the ferroelectricity of CH ₃ NH ₃ PbI ₃ perovskites. <i>Nature Materials</i> , 2019, 18, 1051-1053.	13.3	21
17	Multi-purposed Ar gas cluster ion beam processing for graphene engineering. <i>Carbon</i> , 2018, 131, 142-148.	5.4	18
18	Mitigating e-beam-induced hydrocarbon deposition on graphene for atomic-scale scanning transmission electron microscopy studies. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	0.6	32

#	ARTICLE	IF	CITATIONS
19	Graphene Defect Editing, Deposition, and Growth via E-Beam-Induced Organic Reactions in Aberration Corrected STEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 1994-1995.	0.2	1
20	<i>In situ</i> liquid cell crystallization and imaging of thiamethoxam by helium ion microscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	0.6	3
21	3D Nanostructures Grown via Focused Helium Ion Beam Induced Deposition. <i>Microscopy and Microanalysis</i> , 2018, 24, 332-333.	0.2	1
22	E-beam manipulation of Si atoms on graphene edges with an aberration-corrected scanning transmission electron microscope. <i>Nano Research</i> , 2018, 11, 6217-6226.	5.8	21
23	Atom-by-Atom Assembly in Aberration Corrected STEM and the Role of Chemistry at the Surface of Graphene. <i>Microscopy and Microanalysis</i> , 2018, 24, 326-327.	0.2	0
24	Atomic Manipulation on a Scanning Transmission Electron Microscope Platform using Real-Time Image Processing and Feedback. <i>Microscopy and Microanalysis</i> , 2018, 24, 534-535.	0.2	0
25	Automated Atom-by-Atom Assembly of Structures in Graphene: The Rise of STEM for Atomic Scale Control. <i>Microscopy and Microanalysis</i> , 2018, 24, 1594-1595.	0.2	0
26	Building Structures Atom by Atom via Electron Beam Manipulation. <i>Small</i> , 2018, 14, e1801771.	5.2	81
27	Chemical nature of ferroelastic twin domains in CH ₃ NH ₃ PbI ₃ perovskite. <i>Nature Materials</i> , 2018, 17, 1013-1019.	13.3	183
28	Graphene milling dynamics during helium ion beam irradiation. <i>Carbon</i> , 2018, 138, 277-282.	5.4	18
29	Placing single atoms in graphene with a scanning transmission electron microscope. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	119
30	Noble gas ion beams in materials science for future applications and devices. <i>MRS Bulletin</i> , 2017, 42, 660-666.	1.7	23
31	Ion Beam Induced Current Measurements of Solar Cells with Helium Ion Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 2084-2085.	0.2	0
32	Engineering the thermal conductivity along an individual silicon nanowire by selective helium ion irradiation. <i>Nature Communications</i> , 2017, 8, 15919.	5.8	65
33	Multi-Modal Processing of Graphene Towards Precisely Controlled Fabrication of a Nanoelectronic Device Using the Helium Ion Microscope and the TOF SIMS. <i>Microscopy and Microanalysis</i> , 2017, 23, 1720-1721.	0.2	0
34	High Purity Tungsten Nanostructures via Focused Electron Beam Induced Deposition with Carrier Gas Assisted Supersonic Jet Delivery of Organometallic Precursors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10584-10590.	1.5	18
35	Activating "Invisible" Glue: Using Electron Beam for Enhancement of Interfacial Properties of Graphene-Metal Contact. <i>ACS Nano</i> , 2016, 10, 1042-1049.	7.3	12
36	Using an energized oxygen micro-jet for improved graphene etching by focused electron beam. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	7

#	ARTICLE	IF	CITATIONS
37	Localized conductive patterning via focused electron beam reduction of graphene oxide. Applied Physics Letters, 2015, 106, .	1.5	11
38	Effect of Volume Fraction on Transient Structural Behavior of Aerosol Particles Using Off-Lattice Kinetic Monte Carlo Simulation. Aerosol Science and Technology, 2015, 49, 1242-1255.	1.5	6
39	Dynamic modulation of electronic properties of graphene by localized carbon doping using focused electron beam induced deposition. Nanoscale, 2015, 7, 14946-14952.	2.8	12
40	Rapid Electron Beam Writing of Topologically Complex 3D Nanostructures Using Liquid Phase Precursor. Nano Letters, 2015, 15, 8385-8391.	4.5	39
41	Pt Catalyst over SiO ₂ and Al ₂ O ₃ Supports Synthesized by Aerosol Method for HC-SCR DeNO _x Application. Aerosol and Air Quality Research, 2015, 15, 2409-2421.	0.9	12
42	Focused-electron-beam-induced processing (FEBIP) for emerging applications in carbon nanoelectronics. Applied Physics A: Materials Science and Processing, 2014, 117, 1659-1674.	1.1	23
43	Controlling the Physicochemical State of Carbon on Graphene Using Focused Electron-Beam-Induced Deposition. ACS Nano, 2014, 8, 6805-6813.	7.3	17
44	Chemical Reduction of Individual Graphene Oxide Sheets as Revealed by Electrostatic Force Microscopy. Journal of the American Chemical Society, 2014, 136, 6546-6549.	6.6	66
45	Fabrication of an UltraLow-Resistance Ohmic Contact to MWCNTs Metal Interconnect Using Graphitic Carbon by Electron Beam-Induced Deposition (EBID). IEEE Nanotechnology Magazine, 2012, 11, 1223-1230.	1.1	38
46	Light-Induced Plasmon-Assisted Phase Transformation of Carbon on Metal Nanoparticles. Advanced Functional Materials, 2012, 22, 2129-2139.	7.8	23
47	Thermally Induced Transformations of Amorphous Carbon Nanostructures Fabricated by Electron Beam Induced Deposition. ACS Applied Materials & Interfaces, 2011, 3, 710-720.	4.0	27
48	Inert gas jets for growth control in electron beam induced deposition. Applied Physics Letters, 2011, 98, 263109.	1.5	12
49	Three-dimensional off-lattice Monte Carlo simulations on a direct relation between experimental process parameters and fractal dimension of colloidal aggregates. Journal of Colloid and Interface Science, 2010, 344, 353-361.	5.0	33
50	The effect of the geometry and material properties of a carbon joint produced by electron beam induced deposition on the electrical resistance of a multiwalled carbon nanotube-to-metal contact interface. Nanotechnology, 2010, 21, 035202.	1.3	31
51	Maskless and Resist-Free Rapid Prototyping of Three-Dimensional Structures Through Electron Beam Induced Deposition (EBID) of Carbon in Combination with Metal-Assisted Chemical Etching (MaCE) of Silicon. ACS Applied Materials & Interfaces, 2010, 2, 969-973.	4.0	26
52	Aerodynamic focusing of 50nm nanoparticles in air. Journal of Aerosol Science, 2009, 40, 1010-1018.	1.8	16
53	Crystalline Phase Reduction of Cuprous Oxide (Cu ₂ O) Nanoparticles Accompanied by a Morphology Change during Ethanol-Assisted Spray Pyrolysis. Langmuir, 2009, 25, 7063-7071.	1.6	42