Do-Yeon Kim Ph D

List of Publications by Year in Descending Order

30 papers	963 citations	19 h-index	30 g-index
30 ext. papers	1,089 ext. citations	7.6 avg, IF	3.75 L-index

#	Paper	IF	Citations
30	Stable High-Capacity Lithium Ion Battery Anodes Produced by Supersonic Spray Deposition of Hematite Nanoparticles and Self-Healing Reduced Graphene Oxide. *Electrochimica Acta*, **2017**, 228, 604-610	6.7	21
29	Supersonically Sprayed Copper–Nickel Microparticles as Flexible and Printable Thin-Film High-Temperature Heaters. *Advanced Materials Interfaces*, **2017**, 4, 1700075	4.6	14
28	Highly flexible, stretchable, wearable, patternable and transparent heaters on complex 3D surfaces formed from supersonically sprayed silver nanowires. *Journal of Materials Chemistry A*, **2017**, 5, 6677-6685	13	79
27	Tuning crystalline structure of zeolitic metal–organic frameworks by supersonic spraying of precursor nanoparticle suspensions. *Materials and Design*, **2017**, 114, 416-423	8.1	4
26	Production of Flexible Transparent Conducting Films of Self-Fused Nanowires via One-Step Supersonic Spraying. *Advanced Functional Materials*, **2017**, 27, 1602548	15.6	43
25	Rapid supersonic spraying of Cu(In,Ga)(S,Se)2 nanoparticles to fabricate a solar cell with 5.49% conversion efficiency. *Acta Materialia*, **2017**, 123, 44-54	8.4	13
24	Electrically Insulative Performances of Ceramic and Clay Films Deposited via Supersonic Spraying. *Journal of Thermal Spray Technology*, **2016**, 25, 763-769	2.5	8
23	Efficient heat removal via thorny devil nanofiber, silver nanowire, and graphene nanotextured surfaces. *International Journal of Heat and Mass Transfer*, **2016**, 101, 198-204	4.9	8
22	Scalable Binder-Free Supersonic Cold Spraying of Nanotextured Cupric Oxide (CuO) Films as Efficient Photocathodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 15406-14	9.5	31
21	Supersonically sprayed reduced graphene oxide film to enhance critical heat flux in pool boiling. *International Journal of Heat and Mass Transfer*, **2016**, 98, 124-130	4.9	43
20	Supersonic cold spraying for zeolitic metal–organic framework films. *Chemical Engineering Journal*, **2016**, 295, 49-56	14.7	29
19	Supersonically sprayed thermal barrier layers using clay micro-particles. *Applied Clay Science*, **2016**, 120, 142-146	5.2	10
18	Self-Junctioned Copper Nanofiber Transparent Flexible Conducting Film via Electrospinning and Electroplating. *Advanced Materials*, **2016**, 28, 7149-54	24	120
17	Self-cleaning superhydrophobic films by supersonic-spraying polytetrafluoroethylene–titania nanoparticles. *Journal of Materials Chemistry A*, **2015**, 3, 3975-3983	13	41
16	Supersonically blown nylon-6 nanofibers entangled with graphene flakes for water purification. *Nanoscale*, **2015**, 7, 19027-35	7.7	28
15	Robust Mechanical Properties of Electrically Insulative Alumina Films by Supersonic Aerosol Deposition. *Journal of Thermal Spray Technology*, **2015**, 24, 1046-1051	2.5	8
14	Thin film metallization by supersonic spraying of copper and nickel nanoparticles on a silicon substrate. *Computational Materials Science*, **2015**, 108, 114-120	3.2	17

13	Nickel–copper hybrid electrodes self-adhered onto a silicon wafer by supersonic cold-spray. *Acta Materialia*, **2015**, 93, 156-163	8.4	27
12	Graphene Quantum Dot Layers with Energy-Down-Shift Effect on Crystalline-Silicon Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 19043-9	9.5	41
11	Self-Healing Reduced Graphene Oxide Films by Supersonic Kinetic Spraying. *Advanced Functional Materials*, **2014**, 24, 4986-4995	15.6	131
10	Supersonic aerosol-deposited TiO2 photoelectrodes for photoelectrochemical solar water splitting. *RSC Advances*, **2014**, 4, 8661-8670	3.7	19
9	Graphene–titania Hybrid Photoanodes by Supersonic Kinetic Spraying for Solar Water Splitting. *Journal of the American Ceramic Society*, **2014**, 97, 3660-3668	3.8	9
8	Graphene–titania films by supersonic kinetic spraying for enhanced performance of dye-sensitized solar cells. *Ceramics International*, **2014**, 40, 11089-11097	5.1	31
7	Cold Spray Deposition of Copper Electrodes on Silicon and Glass Substrates. *Journal of Thermal Spray Technology*, **2013**, 22, 1092-1102	2.5	50
6	Wettability and photocatalysis of CF4 plasma etched titania films of honeycomb structure. *Ceramics International*, **2013**, 39, 9737-9742	5.1	5
5	Thermally induced superhydrophilicity in TiO2 films prepared by supersonic aerosol deposition. *ACS Applied Materials & Interfaces*, **2013**, 5, 6155-60	9.5	43
4	Superhydrophilic Transparent Titania Films by Supersonic Aerosol Deposition. *Journal of the American Ceramic Society*, **2013**, 96, 1596-1601	3.8	23
3	Tuning Hydrophobicity with Honeycomb Surface Structure and Hydrophilicity with CF4 Plasma Etching for Aerosol-Deposited Titania Films. *Journal of the American Ceramic Society*, **2012**, 95, 3955-3961	3.8	13
2	Antibacterial and water purification activities of self-assembled honeycomb structure of aerosol deposited titania film. *Environmental Science & Technology*, **2012**, 46, 12510-8	10.3	30
1	Numerical Studies on the Effects of Stagnation Pressure and Temperature on Supersonic Flow Characteristics in Cold Spray Applications. *Journal of Thermal Spray Technology*, **2011**, 20, 1085-1097	2.5	24