

Do-Yeon Kim Ph D

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,195
citations

361388

20
h-index

454934

30
g-index

30
all docs

30
docs citations

30
times ranked

1643
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Healing Reduced Graphene Oxide Films by Supersonic Kinetic Spraying. <i>Advanced Functional Materials</i> , 2014, 24, 4986-4995.	14.9	151
2	Self-Functioned Copper Nanofiber Transparent Flexible Conducting Film via Electrospinning and Electroplating. <i>Advanced Materials</i> , 2016, 28, 7149-7154.	21.0	141
3	Highly flexible, stretchable, wearable, patternable and transparent heaters on complex 3D surfaces formed from supersonically sprayed silver nanowires. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6677-6685.	10.3	109
4	Cold Spray Deposition of Copper Electrodes on Silicon and Glass Substrates. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 1092-1102.	3.1	59
5	Supersonically sprayed reduced graphene oxide film to enhance critical heat flux in pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 124-130.	4.8	57
6	Production of Flexible Transparent Conducting Films of Self-Fused Nanowires via One-Step Supersonic Spraying. <i>Advanced Functional Materials</i> , 2017, 27, 1602548.	14.9	54
7	Thermally Induced Superhydrophilicity in TiO ₂ Films Prepared by Supersonic Aerosol Deposition. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6155-6160.	8.0	49
8	Graphene Quantum Dot Layers with Energy-Down-Shift Effect on Crystalline-Silicon Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19043-19049.	8.0	49
9	Self-cleaning superhydrophobic films by supersonic-spraying polytetrafluoroethylene-titania nanoparticles. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3975-3983.	10.3	45
10	Scalable Binder-Free Supersonic Cold Spraying of Nanotextured Cupric Oxide (CuO) Films as Efficient Photocathodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15406-15414.	8.0	44
11	Supersonically blown nylon-6 nanofibers entangled with graphene flakes for water purification. <i>Nanoscale</i> , 2015, 7, 19027-19035.	5.6	38
12	Graphene-titania films by supersonic kinetic spraying for enhanced performance of dye-sensitized solar cells. <i>Ceramics International</i> , 2014, 40, 11089-11097.	4.8	37
13	Antibacterial and Water Purification Activities of Self-Assembled Honeycomb Structure of Aerosol Deposited Titania Film. <i>Environmental Science & Technology</i> , 2012, 46, 12510-12518.	10.0	36
14	Supersonic cold spraying for zeolitic metal-organic framework films. <i>Chemical Engineering Journal</i> , 2016, 295, 49-56.	12.7	36
15	Nickel-copper hybrid electrodes self-adhered onto a silicon wafer by supersonic cold-spray. <i>Acta Materialia</i> , 2015, 93, 156-163.	7.9	34
16	Stable High-Capacity Lithium Ion Battery Anodes Produced by Supersonic Spray Deposition of Hematite Nanoparticles and Self-Healing Reduced Graphene Oxide. <i>Electrochimica Acta</i> , 2017, 228, 604-610.	5.2	33
17	Numerical Studies on the Effects of Stagnation Pressure and Temperature on Supersonic Flow Characteristics in Cold Spray Applications. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 1085-1097.	3.1	32
18	Superhydrophilic Transparent Titania Films by Supersonic Aerosol Deposition. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1596-1601.	3.8	31

#	ARTICLE	IF	CITATIONS
19	Supersonic aerosol-deposited TiO ₂ photoelectrodes for photoelectrochemical solar water splitting. RSC Advances, 2014, 4, 8661-8670.	3.6	24
20	Supersonically Sprayed Copper–Nickel Microparticles as Flexible and Printable Thin-Film High-Temperature Heaters. Advanced Materials Interfaces, 2017, 4, 1700075.	3.7	24
21	Thin film metallization by supersonic spraying of copper and nickel nanoparticles on a silicon substrate. Computational Materials Science, 2015, 108, 114-120.	3.0	20
22	Tuning Hydrophobicity with Honeycomb Surface Structure and Hydrophilicity with CF_4 Plasma Etching for Aerosol-Deposited Titania Films. Journal of the American Ceramic Society, 2012, 95, 3955-3961.	3.8	16
23	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.	7.9	14
24	Electrically Insulative Performances of Ceramic and Clay Films Deposited via Supersonic Spraying. Journal of Thermal Spray Technology, 2016, 25, 763-769.	3.1	12
25	Graphene–Titania Hybrid Photoanodes by Supersonic Kinetic Spraying for Solar Water Splitting. Journal of the American Ceramic Society, 2014, 97, 3660-3668.	3.8	11
26	Robust Mechanical Properties of Electrically Insulative Alumina Films by Supersonic Aerosol Deposition. Journal of Thermal Spray Technology, 2015, 24, 1046-1051.	3.1	11
27	Supersonically sprayed thermal barrier layers using clay micro-particles. Applied Clay Science, 2016, 120, 142-146.	5.2	10
28	Efficient heat removal via thorny devil nanofiber, silver nanowire, and graphene nanotextured surfaces. International Journal of Heat and Mass Transfer, 2016, 101, 198-204.	4.8	9
29	Wettability and photocatalysis of CF ₄ plasma etched titania films of honeycomb structure. Ceramics International, 2013, 39, 9737-9742.	4.8	5
30	Tuning crystalline structure of zeolitic metal–organic frameworks by supersonic spraying of precursor nanoparticle suspensions. Materials and Design, 2017, 114, 416-423.	7.0	4