

# Hyung-Joon Shin

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,145  
citations

236925

25  
h-index

161849

54  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogenated holey two-dimensional structures. <i>Nature Communications</i> , 2015, 6, 6486.	12.8	923
2	Two-dimensional polyaniline (C <sub>3</sub> N) from carbonized organic single crystals in solid state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7414-7419.	7.1	380
3	State-selective dissociation of a single water molecule on an ultrathin MgO film. <i>Nature Materials</i> , 2010, 9, 442-447.	27.5	171
4	The effect of texture on ridging of ferritic stainless steel. <i>Acta Materialia</i> , 2003, 51, 4693-4706.	7.9	167
5	Amine-Based Polar Solvent Treatment for Highly Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2014, 26, 494-500.	21.0	159
6	Colossal grain growth yields single-crystal metal foils by contact-free annealing. <i>Science</i> , 2018, 362, 1021-1025.	12.6	158
7	Adlayer-Free Large-Area Single Crystal Graphene Grown on a Cu(111) Foil. <i>Advanced Materials</i> , 2019, 31, e1903615.	21.0	89
8	Deformation and annealing textures of silver wire. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 279, 244-253.	5.6	72
9	Role of alloyed Y in improving the corrosion resistance of extruded Mg-Al-Ca-based alloy. <i>Corrosion Science</i> , 2017, 118, 227-232.	6.6	66
10	Effect of alloyed Ca on the microstructure and corrosion properties of extruded AZ61 Mg alloy. <i>Corrosion Science</i> , 2016, 112, 44-53.	6.6	65
11	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. <i>Chemistry of Materials</i> , 2017, 29, 4546-4556.	6.7	63
12	Oxidation behavior of graphene-coated copper at intrinsic graphene defects of different origins. <i>Nature Communications</i> , 2017, 8, 1549.	12.8	60
13	Catalytic Conversion of Hexagonal Boron Nitride to Graphene for In-Plane Heterostructures. <i>Nano Letters</i> , 2015, 15, 4769-4775.	9.1	52
14	Growth of Wrinkle-Free Graphene on Texture-Controlled Platinum Films and Thermal-Assisted Transfer of Large-Scale Patterned Graphene. <i>ACS Nano</i> , 2015, 9, 679-686.	14.6	52
15	Self-powered triboelectric/pyroelectric multimodal sensors with enhanced performances and decoupled multiple stimuli. <i>Nano Energy</i> , 2020, 72, 104671.	16.0	44
16	Improved corrosion resistance of extruded Mg <sub>8</sub> Sn <sub>1</sub> Zn <sub>1</sub> Al alloy by microalloying with Mn. <i>Scripta Materialia</i> , 2015, 109, 38-43.	5.2	43
17	Activation of Ultrathin Oxide Films for Chemical Reaction by Interface Defects. <i>Journal of the American Chemical Society</i> , 2011, 133, 6142-6145.	13.7	41
18	A high-performance supercapacitor based on polyaniline-nanoporous gold. <i>Journal of Alloys and Compounds</i> , 2019, 779, 74-80.	5.5	40

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19	Two-dimensional amine and hydroxy functionalized fused aromatic covalent organic framework. Communications Chemistry, 2020, 3, .	4.5	40
20	Controlling water dissociation on an ultrathin MgO film by tuning film thickness. Physical Review B, 2010, 82, .	3.2	38
21	Atomically resolved orientational ordering of C60molecules on epitaxial graphene on Cu(111). Nanoscale, 2014, 6, 11835-11840.	5.6	36
22	Patterning of ferroelectric nanodot arrays using a silicon nitride shadow mask. Applied Physics Letters, 2005, 87, 113114.	3.3	34
23	Influence of alloyed Al on the microstructure and corrosion properties of extruded Mg <sup>8</sup> Sn <sup>1</sup> Zn alloys. Corrosion Science, 2015, 95, 133-142.	6.6	32
24	Unveiling 79 <sup>9</sup> Year <sup>9</sup> Old Ixene and Its BN <sup>9</sup> Doped Derivative. Angewandte Chemie - International Edition, 2020, 59, 14891-14895.	13.8	29
25	Control of Molecular Rotors by Selection of Anchoring Sites. Physical Review Letters, 2011, 106, 146101.	7.8	26
26	Ligand Field Effect at Oxide <sup>9</sup> Metal Interface on the Chemical Reactivity of Ultrathin Oxide Film Surface. Journal of the American Chemical Society, 2012, 134, 10554-10561.	13.7	23
27	Substrate-induced array of quantum dots in a single-walled carbon nanotube. Nature Nanotechnology, 2009, 4, 567-570.	31.5	22
28	Improved corrosion resistance of Mg <sup>8</sup> Sn <sup>1</sup> Zn <sup>1</sup> Al alloy subjected to low-temperature indirect extrusion. Corrosion Science, 2018, 141, 203-210.	6.6	22
29	Nanoporous gold-palladium: A binary alloy with high catalytic activity for the electro-oxidation of ethanol. Journal of Alloys and Compounds, 2020, 842, 155847.	5.5	22
30	In situ observations of gas phase dynamics during graphene growth using solid-state carbon sources. Physical Chemistry Chemical Physics, 2013, 15, 10446.	2.8	21
31	Self-assembled, highly crystalline porous ferroelectric poly(vinylidene fluoride) (PVDF) thin films. Applied Surface Science, 2013, 276, 243-250.	16.0	20
32	Photo-stimulated triboelectric generation. Nanoscale, 2017, 9, 18597-18603.	5.6	13
33	Electronic structure of single-walled carbon nanotubes on ultrathin insulating films. Applied Physics Letters, 2008, 93, .	3.3	11
34	The Evolution of the Cube, Rotated Cube and Goss Recrystallization Textures in Rolled Copper and Cu-Mn Alloys. Key Engineering Materials, 2003, 233-236, 515-520.	0.4	10
35	Defect-associated adsorption of monoethanolamine on TiO <sub>2</sub> (1 1 0): An alternative way to control the work function of oxide electrode. Applied Surface Science, 2019, 467-468, 1213-1218.	6.1	10
36	Anisotropic Angstrom-Wide Conductive Channels in Black Phosphorus by Top-down Cu Intercalation. Nano Letters, 2021, 21, 6336-6342.	9.1	10

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37	Determining the effect of added zirconium on the bond character in TiFe alloys using scanning Kelvin probe force microscopy. Applied Surface Science, 2020, 517, 146163.	6.1	8
38	Combined Scanning Tunneling Microscopy and High-Resolution Electron Energy Loss Spectroscopy Study on the Adsorption State of CO on Ag(001). Langmuir, 2012, 28, 13249-13252.	3.5	7
39	Enhanced Crystallinity of Epitaxial Graphene Grown on Hexagonal SiC Surface with Molybdenum Plate Capping. Scientific Reports, 2015, 5, 9615.	3.3	7
40	Unveiling 79-year-old Ixene and Its BN-Doped Derivative. Angewandte Chemie, 2020, 132, 15001-15005.	2.0	7
41	Strain-induced abnormal grain growth of Fe foils. Journal of Alloys and Compounds, 2021, 853, 157390.	5.5	7
42	Fabrication of nanoporous gold thin films on glass substrates for amperometric sensing of aniline. Journal of Alloys and Compounds, 2017, 713, 132-137.	5.5	6
43	Dissociative Adsorption of H <sub>2</sub> O on the TiO <sub>2</sub> (110) Surface for Advanced Oxidation Process. Journal of Physical Chemistry C, 2020, 124, 11930-11934.	3.1	6
44	One-dimensional growth of MgO film on SrTiO <sub>3</sub> (100). Nanotechnology, 2007, 18, 175304.	2.6	5
45	Fingerprints of Multiple Electron Scatterings in Single-Layer Graphene. Scientific Reports, 2016, 6, 22570.	3.3	5
46	C <sub>60</sub> Adsorbed on TiO <sub>2</sub> Drives Dark Generation of Hydroxyl Radicals. ACS Catalysis, 2022, 12, 5990-5996.	11.2	5
47	Modified gap states in Fe/MgO/SrTiO <sub>3</sub> interfaces studied with scanning tunneling microscopy. Current Applied Physics, 2014, 14, 1692-1695.	2.4	4
48	Probing Franck-Condon-like Excitations in Anchoring of Phthalocyanine Molecules on Au(111). Journal of Physical Chemistry C, 2017, 121, 17402-17408.	3.1	4
49	Analysis of Ridging in Ferritic Stainless Steel and Aluminum Alloy Sheets. Key Engineering Materials, 2004, 274-276, 11-18.	0.4	2
50	Electronic modulations in a single wall carbon nanotube induced by the Au(111) surface reconstruction. Applied Physics Letters, 2015, 106, .	3.3	2
51	Facile room-temperature self-assembly of extended cation-free guanine-quartet network on Mo-doped Au(111) surface. Nanoscale Advances, 2021, 3, 3867-3874.	4.6	2
52	Simulation of Ridging of Ferritic Stainless Steel Using Crystal Plasticity Finite Element Method. Materials Science Forum, 2002, 408-412, 401-406.	0.3	1
53	Recrystallization Texture of (123)[-6-3 4] Copper Single Crystal Cold Rolled up to 99.5%. Materials Science Forum, 2003, 426-432, 83-90.	0.3	1
54	Addendum: "Patterning of ferroelectric nanodot arrays using a silicon nitride shadow mask" [Appl. Phys. Lett. 87, 113114 (2005)]. Applied Physics Letters, 2006, 89, 089901.	3.3	1

#	ARTICLE	IF	CITATIONS
55	The Influence of Tension on the Development of Rolling Textures. Zairyo/Journal of the Society of Materials Science, Japan, 2000, 49, 161-166.	0.2	1
56	Plastic Strain Ratios of Fe and Ni Electrodeposits. Materials Science Forum, 2002, 408-412, 1115-1120.	0.3	0
57	Trapped carrier dynamics in dielectric nanodots. Current Applied Physics, 2010, 10, 957-961.	2.4	0
58	Investigation of Ridging in Ferritic Stainless Steel Using Crystal Plasticity Finite Element Method. Solid Mechanics and Its Applications, 2004, , 275-282.	0.2	0