# Hyung-Joon Shin

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | 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 |
| 2 | Strain-induced abnormal grain growth of Fe foils. Journal of Alloys and Compounds, 2021, 853, 157390. | 5.5 | 7 |
| 3 | 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 |
| 4 | Anisotropic Angstrom-Wide Conductive Channels in Black Phosphorus by Top-down Cu Intercalation. Nano Letters, 2021, 21, 6336-6342. | 9.1 | 10 |
| 5 | Unveiling 79â€Yearâ€Old Ixene and Its BNâ€Doped Derivative. Angewandte Chemie, 2020, 132, 15001-15005. | 2.0 | 7 |
| 6 | Dissociative Adsorption of H<sub>2</sub>O<sub>2</sub> on the TiO<sub>2</sub>(110) Surface for Advanced Oxidation Process. Journal of Physical Chemistry C, 2020, 124, 11930-11934. | 3.1 | 6 |
| 7 | Unveiling 79â€Yearâ€Old Ixene and Its BNâ€Doped Derivative. Angewandte Chemie - International Edition, 2020, 59, 14891-14895. | 13.8 | 29 |
| 8 | 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 |
| 9 | Self-powered triboelectric/pyroelectric multimodal sensors with enhanced performances and decoupled multiple stimuli. Nano Energy, 2020, 72, 104671. | 16.0 | 44 |
| 10 | Two-dimensional amine and hydroxy functionalized fused aromatic covalent organic framework. Communications Chemistry, 2020, 3, . | 4.5 | 40 |
| 11 | 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 |
| 12 | Adlayerâ€Free Largeâ€Area Single Crystal Graphene Grown on a Cu(111) Foil. Advanced Materials, 2019, 31, e1903615. | 21.0 | 89 |
| 13 | A high-performance supercapacitor based on polyaniline-nanoporous gold. Journal of Alloys and Compounds, 2019, 779, 74-80. | 5.5 | 40 |
| 14 | Defect-associated adsorption of monoethanolamine on TiO2(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 |
| 15 | Colossal grain growth yields single-crystal metal foils by contact-free annealing. Science, 2018, 362, 1021-1025. | 12.6 | 158 |
| 16 | Improved corrosion resistance of Mgâ€“8Snâ€“1Znâ€“1Al alloy subjected to low-temperature indirect extrusion. Corrosion Science, 2018, 141, 203-210. | 6.6 | 22 |
| 17 | Role of alloyed Y in improving the corrosion resistance of extruded Mgâ€“Alâ€“Ca-based alloy. Corrosion Science, 2017, 118, 227-232. | 6.6 | 66 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. Chemistry of Materials, 2017, 29, 4546-4556. | 6.7 | 63 |
| 20 | Self-assembled, highly crystalline porous ferroelectric poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (fluoride-co-trifluoro 243-250. | 16.0 | 20 |
| 21 | Probing Franckâ€“Condon-like Excitations in Anchoring of Phthalocyanine Molecules on Au(111). Journal of Physical Chemistry C, 2017, 121, 17402-17408. | 3.1 | 4 |
| 22 | Oxidation behavior of graphene-coated copper at intrinsic graphene defects of different origins. Nature Communications, 2017, 8, 1549. | 12.8 | 60 |
| 23 | Photo-stimulated triboelectric generation. Nanoscale, 2017, 9, 18597-18603. | 5.6 | 13 |
| 24 | Fingerprints of Multiple Electron Scatterings in Single-Layer Graphene. Scientific Reports, 2016, 6, 22570. | 3.3 | 5 |
| 25 | Effect of alloyed Ca on the microstructure and corrosion properties of extruded AZ61 Mg alloy. Corrosion Science, 2016, 112, 44-53. | 6.6 | 65 |
| 26 | Two-dimensional polyaniline (C <sub>3</sub> N) from carbonized organic single crystals in solid state. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7414-7419. | 7.1 | 380 |
| 27 | Nitrogenated holey two-dimensional structures. Nature Communications, 2015, 6, 6486. | 12.8 | 923 |
| 28 | Catalytic Conversion of Hexagonal Boron Nitride to Graphene for In-Plane Heterostructures. Nano Letters, 2015, 15, 4769-4775. | 9.1 | 52 |
| 29 | Influence of alloyed Al on the microstructure and corrosion properties of extruded Mgâ€“8Snâ€“1Zn alloys. Corrosion Science, 2015, 95, 133-142. | 6.6 | 32 |
| 30 | Enhanced Crystallinity of Epitaxial Graphene Grown on Hexagonal SiC Surface with Molybdenum Plate Capping. Scientific Reports, 2015, 5, 9615. | 3.3 | 7 |
| 31 | Electronic modulations in a single wall carbon nanotube induced by the Au(111) surface reconstruction. Applied Physics Letters, 2015, 106, . | 3.3 | 2 |
| 32 | Improved corrosion resistance of extruded Mgâ€“8Snâ€“1Znâ€“1Al alloy by microalloying with Mn. Scripta Materialia, 2015, 109, 38-43. | 5.2 | 43 |
| 33 | Growth of Wrinkle-Free Graphene on Texture-Controlled Platinum Films and Thermal-Assisted Transfer of Large-Scale Patterned Graphene. ACS Nano, 2015, 9, 679-686. | 14.6 | 52 |
| 34 | Amineâ€Based Polar Solvent Treatment for Highly Efficient Inverted Polymer Solar Cells. Advanced Materials, 2014, 26, 494-500. | 21.0 | 159 |
| 35 | Atomically resolved orientational ordering of C60molecules on epitaxial graphene on Cu(111). Nanoscale, 2014, 6, 11835-11840. | 5.6 | 36 |
| 36 | Modified gap states in Fe/MgO/SrTiO3 interfaces studied with scanning tunneling microscopy. Current Applied Physics, 2014, 14, 1692-1695. | 2.4 | 4 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Ligand Field Effect at Oxideâ€“Metal Interface on the Chemical Reactivity of Ultrathin Oxide Film Surface. Journal of the American Chemical Society, 2012, 134, 10554-10561. | 13.7 | 23 |
| 39 | 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 |
| 40 | Activation of Ultrathin Oxide Films for Chemical Reaction by Interface Defects. Journal of the American Chemical Society, 2011, 133, 6142-6145. | 13.7 | 41 |
| 41 | Control of Molecular Rotors by Selection of Anchoring Sites. Physical Review Letters, 2011, 106, 146101. | 7.8 | 26 |
| 42 | Trapped carrier dynamics in dielectric nanodots. Current Applied Physics, 2010, 10, 957-961. | 2.4 | 0 |
| 43 | State-selective dissociation of a single water molecule on an ultrathin MgO film. Nature Materials, 2010, 9, 442-447. | 27.5 | 171 |
| 44 | Controlling water dissociation on an ultrathin MgO film by tuning film thickness. Physical Review B, 2010, 82, . | 3.2 | 38 |
| 45 | Substrate-induced array of quantum dots in a single-walled carbon nanotube. Nature Nanotechnology, 2009, 4, 567-570. | 31.5 | 22 |
| 46 | Electronic structure of single-walled carbon nanotubes on ultrathin insulating films. Applied Physics Letters, 2008, 93, . | 3.3 | 11 |
| 47 | One-dimensional growth of MgO film on SrTiO3(100). Nanotechnology, 2007, 18, 175304. | 2.6 | 5 |
| 48 | Addendum: â€œPatterning of ferroelectric nanodot arrays using a silicon nitride shadow maskâ€•[Appl. Phys. Lett. 87, 113114 (2005)]. Applied Physics Letters, 2006, 89, 089901. | 3.3 | 1 |
| 49 | Patterning of ferroelectric nanodot arrays using a silicon nitride shadow mask. Applied Physics Letters, 2005, 87, 113114. | 3.3 | 34 |
| 50 | Analysis of Ridging in Ferritic Stainless Steel and Aluminum Alloy Sheets. Key Engineering Materials, 2004, 274-276, 11-18. | 0.4 | 2 |
| 51 | Investigation of Ridging in Ferritic Stainless Steel Using Crystal Plasticity Finite Element Method. Solid Mechanics and Its Applications, 2004, , 275-282. | 0.2 | 0 |
| 52 | The effect of texture on ridging of ferritic stainless steel. Acta Materialia, 2003, 51, 4693-4706. | 7.9 | 167 |
| 53 | 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 |
| 54 | 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 |

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| 55 | Simulation of Ridging of Ferritic Stainless Steel Using Crystal Plasticity Finite Element Method. Materials Science Forum, 2002, 408-412, 401-406. | 0.3 | 1 |
| 56 | Plastic Strain Ratios of Fe and Ni Electrodeposits. Materials Science Forum, 2002, 408-412, 1115-1120. | 0.3 | 0 |
| 57 | Deformation and annealing textures of silver wire. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 279, 244-253. | 5.6 | 72 |
| 58 | 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 |