# Seung-Min Paek

List of Publications by Year
in descending order



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|---|---|---|---|
| 83 papers | 3,785 citations | 218381 26 h-index | 123241 61 g-index |
| 88 all docs | 88 docs citations | 88 times ranked | 6222 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enhanced Cyclic Performance and Lithium Storage Capacity of SnO<sub>2</sub>/Graphene Nanoporous Electrodes with Three-Dimensionally Delaminated Flexible Structure. Nano Letters, 2009, 9, 72-75. | 4.5 | 1,615 |
| 2 | Layerâ€byâ€Layer Films of Graphene and Ionic Liquids for Highly Selective Gas Sensing. Angewandte Chemie - International Edition, 2010, 49, 9737-9739. | 7.2 | 296 |
| 3 | Rapid microwave-assisted synthesis of hybrid zeoliticâ€“imidazolate frameworks with mixed metals and mixed linkers. Journal of Materials Chemistry A, 2017, 5, 6090-6099. | 5.2 | 161 |
| 4 | Pharmacokinetics, tissue distribution, and excretion of zinc oxide nanoparticles. International Journal of Nanomedicine, 2012, 7, 3081. | 3.3 | 121 |
| 5 | Theoretical and Experimental Understanding of Hydrogen Evolution Reaction Kinetics in Alkaline Electrolytes with Pt-Based Coreâ€“Shell Nanocrystals. Journal of the American Chemical Society, 2019, 141, 18256-18263. | 6.6 | 91 |
| 6 | Exfoliation and Reassembling Route to Mesoporous Titania Nanohybrids. Chemistry of Materials, 2006, 18, 1134-1140. | 3.2 | 90 |
| 7 | Covalent Organic Nanosheets as Effective Sodium-Ion Storage Materials. ACS Applied Materials & Interfaces, 2018, 10, 32102-32111. | 4.0 | 77 |
| 8 | An Inorganic Nanohybrid with High Specific Surface Area:Â TiO2-Pillared MoS2. Chemistry of Materials, 2005, 17, 3492-3498. | 3.2 | 59 |
| 9 | Electrochromic device of PEDOTâ€“PANI hybrid system for fast response and high optical contrast. Solar Energy Materials and Solar Cells, 2009, 93, 2040-2044. | 3.0 | 55 |
| 10 | Surface treatment of silica nanoparticles for stable and charge-controlled colloidal silica. International Journal of Nanomedicine, 2014, 9 Suppl 2, 29. | 3.3 | 54 |
| 11 | Pt Dopant: Controlling the Ir Oxidation States toward Efficient and Durable Oxygen Evolution Reaction in Acidic Media. Advanced Functional Materials, 2020, 30, 2003935. | 7.8 | 50 |
| 12 | A nanostructured Ni/graphene hybrid for enhanced electrochemical hydrogen storage. Journal of Alloys and Compounds, 2014, 610, 231-235. | 2.8 | 47 |
| 13 | Ligand Effect of Shape-Controlled Î²-Palladium Hydride Nanocrystals on Liquid-Fuel Oxidation Reactions. Chemistry of Materials, 2019, 31, 5663-5673. | 3.2 | 45 |
| 14 | A Latticeâ€Engineering Route to Heterostructured Functional Nanohybrids. Chemistry - an Asian Journal, 2011, 6, 324-338. | 1.7 | 41 |
| 15 | Enhanced lithium storage capacity and cyclic performance of nanostructured TiO2â€“MoO3 hybrid electrode. Chemical Communications, 2009, , 7536. | 2.2 | 40 |
| 16 | Pre-swelled nanostructured electrode for lithium ion battery: TiO2-pillared layered MnO2. Journal of Materials Chemistry, 2010, 20, 2033. | 6.7 | 40 |
| 17 | Facile introduction of Cu+ on activated carbon at ambient conditions and adsorption of benzothiophene over Cu+/activated carbon. Fuel Processing Technology, 2013, 116, 265-270. | 3.7 | 37 |
| 18 | Colloidal behaviors of ZnO nanoparticles in various aqueous media. Toxicology and Environmental Health Sciences, 2012, 4, 121-131. | 1.1 | 36 |

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|---|---|---|---|
| 19 | Intercalative route to heterostructured nanohybrids. Current Applied Physics, 2002, 2, 489-495. | 1.1 | 33 |
| 20 | Isomorphous substitution of divalent metal ions in layered double hydroxides through a soft chemical hydrothermal reaction. Dalton Transactions, 2014, 43, 10430. | 1.6 | 33 |
| 21 | TiO<sub>2</sub>-pillared clays with well-ordered porous structure and excellent photocatalytic activity. RSC Advances, 2015, 5, 8210-8215. | 1.7 | 33 |
| 22 | Intracrystalline structure and release pattern of ferulic acid intercalated into layered double hydroxide through various synthesis routes. Applied Clay Science, 2015, 112-113, 32-39. | 2.6 | 31 |
| 23 | Physicochemical properties of surface charge-modified ZnO nanoparticles with different particle sizes. International Journal of Nanomedicine, 2014, 9 Suppl 2, 41. | 3.3 | 30 |
| 24 | Exfoliationâ€“restacking route to Au nanoparticle-clay nanohybrids. Journal of Physics and Chemistry of Solids, 2006, 67, 1020-1023. | 1.9 | 29 |
| 25 | Electrochemical hydrogen storage performance of hierarchical Co metal flower-like microspheres. Electrochimica Acta, 2016, 217, 132-138. | 2.6 | 27 |
| 26 | Optical iris application of electrochromic thin films. Electrochemistry Communications, 2008, 10, 1785-1787. | 2.3 | 26 |
| 27 | Spontaneous nanoparticle formation coupled with selective adsorption in magadiite. Journal of Materials Chemistry A, 2017, 5, 4144-4149. | 5.2 | 24 |
| 28 | A Dualâ€Polymer Electrochromic Device with High Coloration Efficiency and Fast Response Time: Poly(3,4â€(1,4â€butyleneâ€(2â€ene)dioxy)thiophene)â€“Polyaniline ECD. Chemistry - an Asian Journal, 2011, 6, 2123-2129. | 1.7 | 23 |
| 29 | Low-cost LiFePO4using Fe metal precursor. Journal of Materials Chemistry, 2012, 22, 2624-2631. | 6.7 | 23 |
| 30 | Understanding the Grain Boundary Behavior of Bimetallic Platinumâ€“Cobalt Alloy Nanowires toward Oxygen Electro-Reduction. ACS Catalysis, 2022, 12, 3516-3523. | 5.5 | 23 |
| 31 | Nanostructured TiO2 films for dye-sensitized solar cells. Journal of Physics and Chemistry of Solids, 2006, 67, 1308-1311. | 1.9 | 22 |
| 32 | Layered Metal Hydroxides Containing Calcium and Their Structural Analysis. Bulletin of the Korean Chemical Society, 2012, 33, 1845-1850. | 1.0 | 20 |
| 33 | Porous SnO<sub>2</sub>/layered titanate nanohybrid with enhanced electrochemical performance for reversible lithium storage. Chemical Communications, 2012, 48, 458-460. | 2.2 | 18 |
| 34 | Synergetic effect of nitrogen and sulfur co-doping in mesoporous graphene for enhanced energy storage properties in supercapacitors and lithium-ion batteries. Journal of Solid State Chemistry, 2020, 289, 121451. | 1.4 | 18 |
| 35 | Exfoliation of Dion-Jacobson Layered Perovskite into Macromolecular Nanoplatelet. Bulletin of the Korean Chemical Society, 2013, 34, 2041-2043. | 1.0 | 18 |
| 36 | SYNTHESIS OF HIGHLY CRYSTALLINE OLIVINE-TYPE LiFePO4 NANOPARTICLES BY SOLUTION-BASED REACTIONS. Surface Review and Letters, 2010, 17, 111-119. | 0.5 | 17 |

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|---|---|---|---|
| 37 | Molecular engineering of covalent organic nanosheets for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 17790-17799. | 5.2 | 17 |
| 38 | Microwave-Assisted Synthesis of Ge/GeO2-Reduced Graphene Oxide Nanocomposite with Enhanced Discharge Capacity for Lithium-Ion Batteries. Nanomaterials, 2021, 11, 319. | 1.9 | 16 |
| 39 | Electrophoretic Preparation of an Organicâ€“Inorganic Hybrid of Layered Metal Hydroxide and Hydrogel for a Potential Drugâ€Delivery System. European Journal of Inorganic Chemistry, 2012, 2012, 5269-5275. | 1.0 | 15 |
| 40 | Controlled Growth of Silver Oxide Nanoparticles on the Surface of Citrate Anion Intercalated Layered Double Hydroxide. Nanomaterials, 2021, 11, 455. | 1.9 | 15 |
| 41 | In Situ X-ray Absorption Spectroscopic Study for Î±-MoO<sub>3</sub>Electrode upon Discharge/Charge Reaction in Lithium Secondary Batteries. Bulletin of the Korean Chemical Society, 2010, 31, 3675-3678. | 1.0 | 15 |
| 42 | Doped ZnO Nanowires Obtained by Thermal Annealing. Journal of Nanoscience and Nanotechnology, 2007, 7, 700-703. | 0.9 | 14 |
| 43 | Physico-chemical changes of ZnO nanoparticles with different size and surface chemistry under physiological pH conditions. Colloids and Surfaces B: Biointerfaces, 2015, 127, 137-142. | 2.5 | 14 |
| 44 | Study on the Electrochemical Property of Microporous Cobalt Phosphite [Co<sub>11</sub>(<scp>HPO<sub>3</sub></scp>)<sub>8</sub>(<scp>OH</scp>)<sub>6</sub>]. Bulletin of the Korean Chemical Society, 2016, 37, 192-199. | 1.0 | 14 |
| 45 | Colloidal Properties of Surface Coated Colloidal Silica Nanoparticles in Aqueous and Physiological Solutions. Science of Advanced Materials, 2014, 6, 1573-1581. | 0.1 | 14 |
| 46 | Zr K-edge XAS study on ZrO2-pillared aluminosilicate. Journal of Porous Materials, 2007, 14, 369-377. | 1.3 | 13 |
| 47 | Ta L3-edge XANES study of perovskite oxynitrides ATaO2N (A=Ca, Sr, Ba). Journal of Alloys and Compounds, 2014, 587, 251-254. | 2.8 | 13 |
| 48 | CeO2-layered aluminosilicate nanohybrids for UV screening. Journal of Physics and Chemistry of Solids, 2012, 73, 1478-1482. | 1.9 | 12 |
| 49 | Hierarchical nanostructure of RuO 2 hollow spheres with enhanced lithium ion storage and cyclic performance. Journal of Alloys and Compounds, 2017, 711, 611-616. | 2.8 | 11 |
| 50 | Twoâ€Dimensional Organic/Inorganic Hybrid Nanosheet Electrodes for Enhanced Electrical Conductivity toward Stable and Highâ€Performance Sodiumâ€Ion Batteries. ChemSusChem, 2021, 14, 3244-3256. | 3.6 | 11 |
| 51 | Synthesis of large ring 3,4-alkylenedioxythiophenes (ADOT) derivatives via Mitsunobu reaction. Tetrahedron Letters, 2011, 52, 2823-2825. | 0.7 | 9 |
| 52 | Keggin-type aluminum polyoxocation/graphene oxide hybrid as a new nanostructured electrode for a lithium ion battery. Journal of Physics and Chemistry of Solids, 2012, 73, 1417-1419. | 1.9 | 9 |
| 53 | Effect of Longâ€Range and Local Order of Exfoliated and Protonâ€Beamâ€Irradiated WSe<sub>2</sub> Nanosheets for Sodium Ion Battery Application. Bulletin of the Korean Chemical Society, 2018, 39, 665-670. | 1.0 | 9 |
| 54 | Microwave-irradiated reduced graphene oxide nanosheets for highly reversible and ultrafast sodium storage. Journal of Alloys and Compounds, 2019, 778, 382-390. | 2.8 | 9 |

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|---|---|---|---|
| 55 | Facile Synthetic Route To Prepare Ultrathin Silver Nanosheets by Reducing Silver Thiolates in Interlayer Surface of Layered Double Hydroxides. Inorganic Chemistry, 2020, 59, 2163-2170. | 1.9 | 9 |
| 56 | Formation mechanism of an Al<sub>13</sub> Keggin cluster in hydrated layered polysilicates. Dalton Transactions, 2020, 49, 4920-4926. | 1.6 | 7 |
| 57 | Synthesis of Ni/Graphene Nanosheets via Electron Beam Irradiation and Their Enhanced Electrochemical Hydrogen Storage Properties. Bulletin of the Korean Chemical Society, 2015, 36, 2627-2631. | 1.0 | 6 |
| 58 | Enhanced Contrast of Electrochromic Full Cell Systems with Nanocrystalline PEDOT-Prussian Blue. Journal of Nanoscience and Nanotechnology, 2007, 7, 4131-4134. | 0.9 | 6 |
| 59 | Microwave-Assisted Synthesis of Reduced Graphene Oxide with Hollow Nanostructure for Application to Lithium-Ion Batteries. Nanomaterials, 2022, 12, 1507. | 1.9 | 6 |
| 60 | A novel heterostructured RuS2â€“titanate nanohybrid. Journal of Physics and Chemistry of Solids, 2006, 67, 1248-1251. | 1.9 | 5 |
| 61 | Local structure and lattice covalency of complex perovskites BaM0.2Ta0.8O3â^'N (M = Li, Na, Mg) studied by X-ray diffraction and X-ray absorption spectroscopy. Journal of Solid State Chemistry, 2018, 267, 92-97. | 1.4 | 5 |
| 62 | Porous Hybrids Structure between Silver Nanoparticle and Layered Double Hydroxide for Surface-Enhanced Raman Spectroscopy. Nanomaterials, 2021, 11, 447. | 1.9 | 5 |
| 63 | Synthesis and Structural Analysis of Ternary Caâ€“Alâ€“Fe Layered Double Hydroxides with Different Iron Contents. Crystals, 2021, 11, 1296. | 1.0 | 5 |
| 64 | Amorphous Tungstate Precursor Route to Nanostructured Tungsten Oxide Film with Electrochromic Property. Journal of Nanoscience and Nanotechnology, 2011, 11, 6518-6522. | 0.9 | 4 |
| 65 | Electrocatalysts: Pt Dopant: Controlling the Ir Oxidation States toward Efficient and Durable Oxygen Evolution Reaction in Acidic Media (Adv. Funct. Mater. 38/2020). Advanced Functional Materials, 2020, 30, 2070253. | 7.8 | 4 |
| 66 | Surface Passivation of CeO<SUB>2</SUB> Catalyst and Its Ultraviolet Screening Effect. Journal of Nanoscience and Nanotechnology, 2011, 11, 6448-6452. | 0.9 | 3 |
| 67 | Synthesis and X-ray absorption spectroscopic analysis of exfoliated perovskite oxynitride nanosheets obtained from LiLaTa2O6.15N0.57 precursor. Journal of Solid State Chemistry, 2019, 269, 285-290. | 1.4 | 3 |
| 68 | Novel synthesis of Bis (N-oxopyridine-2-thionato) zinc (II) using solid precursors. Journal of Physics and Chemistry of Solids, 2006, 67, 1071-1074. | 1.9 | 2 |
| 69 | SiO2â€“Fe2O3-pillared Clay Nanohybrid with an Enhanced Gas Removal Property. Chemistry Letters, 2011, 40, 1242-1243. | 0.7 | 2 |
| 70 | Facile Synthetic Route to a Nitrogenâ€doped Titanium Oxide with Enhanced Photoelectrochemical Property via Proton Beam Irradiation. Bulletin of the Korean Chemical Society, 2017, 38, 556-560. | 1.0 | 2 |
| 71 | Controlled Crystal Growth of Two-Dimensional Layered Nanomaterials in Hydrogel via a Modified Electrical Double Migration Method. Crystal Growth and Design, 2017, 17, 6596-6602. | 1.4 | 2 |
| 72 | Exfoliation of <scp>Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub></scp> into Colloidal Nanosheets with Enhanced Discharge Capacity. Bulletin of the Korean Chemical Society, 2020, 41, 906-912. | 1.0 | 2 |

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|---|---|---|---|
| 73 | Formation, thermal redox reaction and crystal structure of Î´-CaCr2O4. Journal of Solid State Chemistry, 2022, 305, 122669. | 1.4 | 2 |
| 74 | Time-Dependent X-ray Absorption Spectroscopic (XAS) Study on the Transformation of Zinc Basic Salt into Bis(N-oxopyridine-2-thionato) Zinc (II). Journal of Nanoscience and Nanotechnology, 2007, 7, 3867-3871. | 0.9 | 1 |
| 75 | Porous Organo-Functionalized Silica/Clay Hybrids. Journal of Nanoscience and Nanotechnology, 2008, 8, 5293-5296. | 0.9 | 1 |
| 76 | Titania-pillared molybdenum oxide as a new nanoporous photocatalyst. Journal of Physics and Chemistry of Solids, 2012, 73, 1469-1472. | 1.9 | 1 |
| 77 | Synthesis and Characterization of New Macroporous SnO<sub>2</sub>Foams. Bulletin of the Korean Chemical Society, 2013, 34, 1388-1390. | 1.0 | 1 |
| 78 | Enhanced contrast of electrochromic full cell systems with nanocrystalline PEDOT-prussian blue. Journal of Nanoscience and Nanotechnology, 2007, 7, 4131-4. | 0.9 | 1 |
| 79 | A Novel Nanoparticle/Lamellar Oxide Hybrid: TiO2-pillared MoO3. Materials Research Society Symposia Proceedings, 2002, 755, 1. | 0.1 | 0 |
| 80 | An Inorganic Nanohybrid with High Specific Surface Area: TiO2-Pillared MoS2.. ChemInform, 2005, 36, no. | 0.1 | 0 |
| 81 | Passivation of Magnetic Tunnel Junction Stacks with Polydimethylsiloxane Thin Films. Energy and Environment Focus, 2014, 3, 64-68. | 0.3 | 0 |
| 82 | Twoâ€Dimensional Organic/Inorganic Hybrid Nanosheet Electrodes for Enhanced Electrical Conductivity toward Stable and Highâ€Performance Sodiumâ€Ion Batteries. ChemSusChem, 2021, 14, 3230-3230. | 3.6 | 0 |
| 83 | Dichlorido[(S)-N-(1-phenylethylidene)-1-(pyridin-2-yl)ethanamine-Î²2N,Nâ€²]zinc(II) dichloromethane solvate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m1027-m1027. | 0.2 | 0 |