# Youngseon Shim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5005434/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 34 papers | 1,409 citations | 394421 19 h-index | 377865 34 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 1589 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nanoporous Carbon Supercapacitors in an Ionic Liquid: A Computer Simulation Study. ACS Nano, 2010, 4, 2345-2355. | 14.6 | 267 |
| 2 | Solvation of Carbon Nanotubes in a Room-Temperature Ionic Liquid. ACS Nano, 2009, 3, 1693-1702. | 14.6 | 140 |
| 3 | Graphene-Based Supercapacitors: A Computer Simulation Study. Journal of Physical Chemistry C, 2011, 115, 23574-23583. | 3.1 | 104 |
| 4 | Dielectric Relaxation, Ion Conductivity, Solvent Rotation, and Solvation Dynamics in a Room-Temperature Ionic Liquid. Journal of Physical Chemistry B, 2008, 112, 11028-11038. | 2.6 | 91 |
| 5 | Graphene-based supercapacitors in the parallel-plate electrode configuration: Ionic liquidsversus organic electrolytes. Faraday Discussions, 2012, 154, 249-263. | 3.2 | 79 |
| 6 | Solvation, Solute Rotation and Vibration Relaxation, and Electron-Transfer Reactions in Room-Temperature Ionic Liquids. Accounts of Chemical Research, 2007, 40, 1130-1137. | 15.6 | 78 |
| 7 | Free Energy and Dynamics of Electron-Transfer Reactions in a Room Temperature Ionic Liquid. Journal of Physical Chemistry B, 2007, 111, 4510-4519. | 2.6 | 64 |
| 8 | Influence of polyvinylpyrrolidone (PVP) capping layer on silver nanowire networks: theoretical and experimental studies. RSC Advances, 2016, 6, 30972-30977. | 3.6 | 63 |
| 9 | Graphene Oxide Supercapacitors: A Computer Simulation Study. Journal of Physical Chemistry C, 2014, 118, 18472-18480. | 3.1 | 60 |
| 10 | Effects of Solute Electronic Polarizability on Solvation in a Room-Temperature Ionic Liquidâ€. Journal of Physical Chemistry B, 2007, 111, 4920-4925. | 2.6 | 53 |
| 11 | Effects of Alkyl Chain Length on Interfacial Structure and Differential Capacitance in Graphene Supercapacitors: A Molecular Dynamics Simulation Study. Electrochimica Acta, 2017, 247, 634-645. | 5.2 | 47 |
| 12 | Computer Simulation Study of Graphene Oxide Supercapacitors: Charge Screening Mechanism. Journal of Physical Chemistry Letters, 2016, 7, 1180-1186. | 4.6 | 38 |
| 13 | Rotational dynamics of a diatomic solute in the room-temperature ionic liquid 1-ethyl-3-methylimidazolium hexafluorophosphate. Journal of Chemical Physics, 2006, 125, 061102. | 3.0 | 36 |
| 14 | Adiabatic Electron Transfer in a Room-Temperature Ionic Liquid: Reaction Dynamics and Kinetics. Journal of Physical Chemistry B, 2009, 113, 12964-12972. | 2.6 | 32 |
| 15 | Dielectric Relaxation and Solvation Dynamics in a Room-Temperature Ionic Liquid: Temperature Dependence. Journal of Physical Chemistry B, 2013, 117, 11743-11752. | 2.6 | 29 |
| 16 | MD Study of Solvation in the Mixture of a Room-Temperature Ionic Liquid and CO<sub>2</sub>. Journal of Physical Chemistry B, 2010, 114, 10160-10170. | 2.6 | 28 |
| 17 | Modulation of the Dirac Point Voltage of Graphene by Ion-Gel Dielectrics and Its Application to Soft Electronic Devices. ACS Nano, 2015, 9, 602-611. | 14.6 | 28 |
| 18 | Prediction and Interpretation of Polymer Properties Using the Graph Convolutional Network. ACS Polymers Au, 2022, 2, 213-222. | 4.1 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Carbon nanotubes in benzene: internal and external solvation. Physical Chemistry Chemical Physics, 2011, 13, 3969. | 2.8 | 22 |
| 20 | Solvation in supercritical water. Journal of Chemical Physics, 2006, 124, 204504. | 3.0 | 20 |
| 21 | Computer simulation study of the solvation of lithium ions in ternary mixed carbonate electrolytes: free energetics, dynamics, and ion transport. Physical Chemistry Chemical Physics, 2018, 20, 28649-28657. | 2.8 | 18 |
| 22 | Vibrational energy relaxation of a diatomic molecule in a room-temperature ionic liquid. Journal of Chemical Physics, 2006, 125, 024507. | 3.0 | 15 |
| 23 | Theoretical study of interactions of a Li<sup>+</sup>(CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>N<sup>â^'</sup> ion pair with CR<sub>3</sub>(OCR<sub>2</sub>CR<sub>2</sub>)<sub>n</sub>OCR<sub>3</sub> (R = H or F). Physical Chemistry Chemical Physics, 2016, 18, 6754-6762. | 2.8 | 14 |
| 24 | MD Study of S<sub>N</sub>1 Reactivity of 2-Chloro-2-methylpropane in the Room-Temperature Ionic Liquid 1-Ethyl-3-methylimidazolium Hexafluorophosphate. Journal of Physical Chemistry B, 2008, 112, 2637-2643. | 2.6 | 11 |
| 25 | Reductive reactions via excess Li in mixture electrolytes of Li ion batteries: an ab initio molecular dynamics study. Physical Chemistry Chemical Physics, 2019, 21, 5489-5498. | 2.8 | 9 |
| 26 | Comparison of Machine Learning Methods towards Developing Interpretable Polyamide Property Prediction. Polymers, 2021, 13, 3653. | 4.5 | 8 |
| 27 | Excitation-energy dependence of solvation dynamics in room-temperature ionic liquids. Journal of Chemical Physics, 2016, 145, 044502. | 3.0 | 6 |
| 28 | Solvation of a Small Metal-Binding Peptide in Room-Temperature Ionic Liquids. Bulletin of the Korean Chemical Society, 2012, 33, 3601-3606. | 1.9 | 6 |
| 29 | Electron-Transfer Reactions in Supercritical Water. Journal of Physical Chemistry B, 2008, 112, 585-594. | 2.6 | 4 |
| 30 | Atomic layer deposition of diisopropylaminosilane on WO3(001) and W(110): a density functional theory study. Physical Chemistry Chemical Physics, 2016, 18, 29139-29146. | 2.8 | 3 |
| 31 | First-principles study of the surface reactions of aminosilane precursors over WO<sub>3</sub>(001) during atomic layer deposition of SiO<sub>2</sub>. RSC Advances, 2020, 10, 16584-16592. | 3.6 | 3 |
| 32 | Computer simulation study of fluorocarbon phosphate surfactant based aqueous reverse micelle in supercritical CO<sub>2</sub>: roles of surfactant functional groups, ionic strength, and phase changes in CO<sub>2</sub>. Physical Chemistry Chemical Physics, 2020, 22, 3434-3445. | 2.8 | 3 |
| 33 | Controlling Gas Generation of Li-Ion Battery through Divinyl Sulfone Electrolyte Additive. International Journal of Molecular Sciences, 2022, 23, 7328. | 4.1 | 1 |
| 34 | A Computer Simulation Study of Thermal and Mechanical Properties of Poly(Ionic Liquid)s. Membranes, 2022, 12, 450. | 3.0 | 0 |