

Simcha Srebnik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2319277/publications.pdf>

Version: 2024-02-01

43
papers

1,454
citations

394286

19
h-index

315616

38
g-index

43
all docs

43
docs citations

43
times ranked

1873
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Structural Characterization of Sodium Alginate and Calcium Alginate. <i>Biomacromolecules</i> , 2016, 17, 2160-2167. | 2.6 | 376 |
| 2 | The critical relation between chemical stability of cations and water in anion exchange membrane fuel cells environment. <i>Journal of Power Sources</i> , 2018, 375, 351-360. | 4.0 | 179 |
| 3 | Highly Efficient and Water-Insensitive Self-Healing Elastomer for Wet and Underwater Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1910196. | 7.8 | 103 |
| 4 | Monte Carlo simulation of polymer wrapping of nanotubes. <i>Chemical Physics Letters</i> , 2007, 444, 96-100. | 1.2 | 67 |
| 5 | Simulation of Thin Film Membranes Formed by Interfacial Polymerization. <i>Langmuir</i> , 2010, 26, 299-306. | 1.6 | 61 |
| 6 | Factors Contributing to Binding-Site Imperfections in Imprinted Polymers. <i>Chemistry of Materials</i> , 2006, 18, 657-663. | 3.2 | 58 |
| 7 | Conformational behavior of polymers adsorbed on nanotubes. <i>Journal of Chemical Physics</i> , 2008, 128, 144901. | 1.2 | 58 |
| 8 | Conformational behavior of semi-flexible polymers confined to a cylindrical surface. <i>Chemical Physics Letters</i> , 2006, 430, 84-88. | 1.2 | 47 |
| 9 | Molecular Simulation of Quaternary Ammonium Solutions at Low Hydration Levels. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11204-11213. | 1.5 | 43 |
| 10 | Cytosine derivatized bis(2,2'-bithienyl)methane molecularly imprinted polymer for selective recognition of 6-thioguanine, an antitumor drug. <i>Biosensors and Bioelectronics</i> , 2015, 70, 153-160. | 5.3 | 41 |
| 11 | A brief review of coarse-grained and other computational studies of molecularly imprinted polymers. <i>Journal of Molecular Recognition</i> , 2011, 24, 883-891. | 1.1 | 25 |
| 12 | Unexpected hydroxide ion structure and properties at low hydration. <i>Journal of Molecular Liquids</i> , 2020, 313, 113485. | 2.3 | 25 |
| 13 | Theoretical Investigation of the Imprinting Efficiency of Molecularly Imprinted Polymers. <i>Chemistry of Materials</i> , 2004, 16, 883-888. | 3.2 | 24 |
| 14 | Simulation of Protein-Imprinted Polymers. 1. Imprinted Pore Properties. <i>Journal of Physical Chemistry B</i> , 2010, 114, 107-114. | 1.2 | 24 |
| 15 | Sugar stereochemistry effects on water structure and on protein stability: The templating concept. <i>Food Hydrocolloids</i> , 2015, 48, 27-37. | 5.6 | 23 |
| 16 | A closer look into the α -helix basin. <i>Scientific Reports</i> , 2016, 6, 38341. | 1.6 | 23 |
| 17 | Pore Size Distribution Induced by Microphase Separation: A Effect of the Leaving Group during Polycondensation. <i>Chemistry of Materials</i> , 2001, 13, 811-816. | 3.2 | 21 |
| 18 | Toward establishing criteria for polymer imprinting using mean-field theory. <i>Journal of Chemical Physics</i> , 2002, 116, 10967-10972. | 1.2 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Simulation of Protein-Imprinted Polymers. 3. Imprinting Selectivity. Journal of Physical Chemistry B, 2011, 115, 14469-14474. | 1.2 | 19 |
| 20 | Effect of Ammonium Cations on the Diffusivity and Structure of Hydroxide Ions in Low Hydration Media. Journal of Physical Chemistry C, 2019, 123, 27355-27362. | 1.5 | 17 |
| 21 | Effect of Carbonate Anions on Quaternary Ammonium-Hydroxide Interaction. Journal of Physical Chemistry C, 2019, 123, 15956-15962. | 1.5 | 17 |
| 22 | Sequence-dependent association of alginate with sodium and calcium counterions. Carbohydrate Polymers, 2017, 157, 1144-1152. | 5.1 | 16 |
| 23 | Simulation of Protein-Imprinted Polymers. 2. Imprinting Efficiency. Journal of Physical Chemistry B, 2010, 114, 16744-16751. | 1.2 | 15 |
| 24 | Physical association of polymers with nanotubes. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 2711-2718. | 2.4 | 13 |
| 25 | Revisiting Cation Complexation and Hydrogen Bonding of Single-Chain Polyguluronate Alginate. Biomacromolecules, 2021, 22, 4027-4036. | 2.6 | 13 |
| 26 | Self-assembly of charged particles on nanotubes and the emergence of particle rings, chains, ribbons and chiral sheets. Soft Matter, 2011, 7, 6897. | 1.2 | 12 |
| 27 | Coarse-Grained Simulation of Protein-Imprinted Hydrogels. Journal of Physical Chemistry B, 2018, 122, 7091-7101. | 1.2 | 12 |
| 28 | Expanding carbon capture capacity: uncovering additional CO ₂ adsorption sites in imine-linked porous organic cages. Physical Chemistry Chemical Physics, 2021, 23, 10311-10320. | 1.3 | 12 |
| 29 | Theoretical Investigation of Imprinted Crosslinked Silicates. Journal of Sol-Gel Science and Technology, 2003, 26, 107-113. | 1.1 | 11 |
| 30 | Solvent effects on heteropolymer adsorption and freezing. Journal of Chemical Physics, 2001, 114, 9179-9183. | 1.2 | 10 |
| 31 | Structural Characterization of Protein-Imprinted Gels Using Lattice Monte Carlo Simulation. Macromolecular Symposia, 2010, 291-292, 258-270. | 0.4 | 9 |
| 32 | Thermodynamic, structural, and mechanical properties of fluoropolymers from molecular dynamics simulation: Comparison of force fields. Chemical Engineering Science, 2019, 205, 332-340. | 1.9 | 8 |
| 33 | Competing Effects of Hydration and Cation Complexation in Single-Chain Alginate. Biomacromolecules, 2022, 23, 1949-1957. | 2.6 | 8 |
| 34 | Simulation of osmotic pressure across an amorphous semipermeable membrane. Journal of Membrane Science, 2018, 563, 183-190. | 4.1 | 7 |
| 35 | Vector Imitation Model of Semiflexible Polymers: Application to Polymer Adsorbed on a Spherical Particle. Macromolecules, 2007, 40, 6432-6438. | 2.2 | 6 |
| 36 | Comparison of descriptors for predicting selectivity of protein-imprinted polymers. Journal of Molecular Recognition, 2016, 29, 391-400. | 1.1 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Negative Pressure within a Liquid-Fluid Interface Determines Its Thickness. <i>Langmuir</i> , 2020, 36, 7943-7947. | 1.6 | 6 |
| 38 | The Relation between α -Helical Conformation and Amyloidogenicity. <i>Biophysical Journal</i> , 2018, 114, 1869-1877. | 0.2 | 5 |
| 39 | United-Atom Molecular Dynamics Study of the Mechanical and Thermomechanical Properties of an Industrial Epoxy. <i>Polymers</i> , 2021, 13, 3443. | 2.0 | 5 |
| 40 | Prediction of the relaxation modulus of a fluoroelastomer using molecular dynamics simulation. <i>Chemical Engineering Science</i> , 2020, 225, 115786. | 1.9 | 4 |
| 41 | The selectivity of protein-imprinted gels and its relation to protein properties: A computer simulation study. <i>Journal of Molecular Recognition</i> , 2017, 30, e2607. | 1.1 | 3 |
| 42 | Diffusion enhancement in composites of nanotubes and porous structures. <i>Molecular Simulation</i> , 2009, 35, 100-108. | 0.9 | 1 |
| 43 | Phase behavior of physically cross-linked asymmetric random heteropolymers. <i>Physical Review E</i> , 2005, 72, 051802. | 0.8 | 0 |