# Bora Karasulu

List of Publications by Year
in descending order



| 22 | 732 | 623734 | 713466 |
|---|---|---|---|
| papers | citations | 14 h-index | 21 g-index |

| 22 | 22 | 22 | 1184 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Accelerating the prediction of large carbon clusters via structure search: Evaluation of machine-learning and classical potentials. Carbon, 2022, 191, 255-266. | 10.3 | 11 |
| 2 | Atomic insights into the oxygen incorporation in atomic layer deposited conductive nitrides and its mitigation by energetic ions. Nanoscale, 2021, 13, 10092-10099. | 5.6 | 7 |
| 3 | Ab initio Structure Prediction Methods for Battery Materials. Johnson Matthey Technology Review, 2020, 64, 103-118. | 1.0 | 15 |
| 4 | Al/Ga-Doped Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> Garnets as Li-Ion Solid-State Battery Electrolytes: Atomistic Insights into Local Coordination Environments and Their Influence on <sup>17</sup>O, <sup>27</sup>Al, and <sup>71</sup>Ga NMR Spectra. Journal of the American Chemical Society, 2020, 142, 3132-3148. | 13.7 | 51 |
| 5 | Boron phosphide as a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -type transparent conductor: Optical absorption and transport through electron-phonon coupling. Physical Review Materials, 2020, 4, . | 2.4 | 11 |
| 6 | Area-Selective Atomic Layer Deposition of ZnO by Area Activation Using Electron Beam-Induced Deposition. Chemistry of Materials, 2019, 31, 1250-1257. | 6.7 | 62 |
| 7 | Ptâ€“Graphene Contacts Fabricated by Plasma Functionalization and Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800268. | 3.7 | 9 |
| 8 | Area-Selective Atomic Layer Deposition of In<sub>2</sub>O<sub>3</sub>:H Using a Î¼-Plasma Printer for Local Area Activation. Chemistry of Materials, 2017, 29, 921-925. | 6.7 | 59 |
| 9 | Towards the implementation of atomic layer deposited In2O3:H in silicon heterojunction solar cells. Solar Energy Materials and Solar Cells, 2017, 163, 43-50. | 6.2 | 32 |
| 10 | Uniform Atomic Layer Deposition of Al<sub>2</sub>O<sub>3</sub> on Graphene by Reversible Hydrogen Plasma Functionalization. Chemistry of Materials, 2017, 29, 2090-2100. | 6.7 | 64 |
| 11 | (Invited) Area-Selective Atomic Layer Deposition: Role of Surface Chemistry. ECS Transactions, 2017, 80, 39-48. | 0.5 | 13 |
| 12 | Area-Selective Atomic Layer Deposition of SiO<sub>2</sub> Using Acetylacetone as a Chemoselective Inhibitor in an ABC-Type Cycle. ACS Nano, 2017, 11, 9303-9311. | 14.6 | 136 |
| 13 | Continuous and ultrathin platinum films on graphene using atomic layer deposition: a combined computational and experimental study. Nanoscale, 2016, 8, 19829-19845. | 5.6 | 39 |
| 14 | Amine Oxidation Mediated by N-Methyltryptophan Oxidase: Computational Insights into the Mechanism, Role of Active-Site Residues, and Covalent Flavin Binding. ACS Catalysis, 2015, 5, 1227-1239. | 11.2 | 16 |
| 15 | Vibrational relaxation as the driving force for wavelength conversion in the peridininâ€“chlorophyll a-protein. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1509-1517. | 1.0 | 7 |
| 16 | Photoinduced Intramolecular Charge Transfer in an Electronically Modified Flavin Derivative: Roseoflavin. Journal of Physical Chemistry B, 2015, 119, 928-943. | 2.6 | 32 |
| 17 | Carotenoids as a Shortcut for Chlorophyll Soretâ€toâ€Q Band Energy Flow. ChemPhysChem, 2014, 15, 3392-3401. | 2.1 | 29 |
| 18 | Assessment of Franckâ€“Condon Methods for Computing Vibrationally Broadened UVâ€“vis Absorption Spectra of Flavin Derivatives: Riboflavin, Roseoflavin, and 5-Thioflavin. Journal of Chemical Theory and Computation, 2014, 10, 5549-5566. | 5.3 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Photophysics of Flavin Derivatives Absorbing in the Blue-Green Region: Thioflavins As Potential Cofactors of Photoswitches. Journal of Physical Chemistry B, 2014, 118, 1743-1753. | 2.6 | 18 |
| 20 | Amine Oxidation Mediated by Lysine-Specific Demethylase 1: Quantum Mechanics/Molecular Mechanics Insights into Mechanism and Role of Lysine 661. Journal of the American Chemical Society, 2013, 135, 13400-13413. | 13.7 | 37 |
| 21 | Computing UV/vis spectra from the adiabatic and vertical Franck-Condon schemes with the use of Cartesian and internal coordinates. Journal of Chemical Physics, 2013, 139, 234108. | 3.0 | 40 |
| 22 | Reaction path analysis for demethylation process of histone tail lysine residues. , 2010, , . | | 0 |