

# Bora Karasulu

## List of Publications by Year in descending order

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22  
papers

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623734

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Area-Selective Atomic Layer Deposition of In <sub>2</sub> O <sub>3</sub> :H Using a $\frac{1}{4}$ -Plasma Printer for Local Area Activation. Chemistry of Materials, 2017, 29, 921-925.	6.7	59
5	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
6	Assessment of Franck-Condon Methods for Computing Vibrationally Broadened UV-vis Absorption Spectra of Flavin Derivatives: Riboflavin, Roseoflavin, and 5-Thioflavin. Journal of Chemical Theory and Computation, 2014, 10, 5549-5566.	5.3	44
7	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
8	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
9	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
10	Photoinduced Intramolecular Charge Transfer in an Electronically Modified Flavin Derivative: Roseoflavin. Journal of Physical Chemistry B, 2015, 119, 928-943.	2.6	32
11	Towards the implementation of atomic layer deposited In <sub>2</sub> O <sub>3</sub> :H in silicon heterojunction solar cells. Solar Energy Materials and Solar Cells, 2017, 163, 43-50.	6.2	32
12	Carotenoids as a Shortcut for Chlorophyll Soret-Q Band Energy Flow. ChemPhysChem, 2014, 15, 3392-3401.	2.1	29
13	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
14	Amine Oxidation Mediated by <i>N</i> -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	Ab initio Structure Prediction Methods for Battery Materials. Johnson Matthey Technology Review, 2020, 64, 103-118.	1.0	15
16	(Invited) Area-Selective Atomic Layer Deposition: Role of Surface Chemistry. ECS Transactions, 2017, 80, 39-48.	0.5	13
17	Boron phosphide as a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -type transparent conductor: Optical absorption and transport through electron-phonon coupling. Physical Review Materials, 2020, 4, .	2.4	11
18	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

#	ARTICLE	IF	CITATIONS
19	Ptâ€“Graphene Contacts Fabricated by Plasma Functionalization and Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800268.	3.7	9
20	Vibrational relaxation as the driving force for wavelength conversion in the peridininâ€“chlorophyll a-protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1509-1517.	1.0	7
21	Atomic insights into the oxygen incorporation in atomic layer deposited conductive nitrides and its mitigation by energetic ions. <i>Nanoscale</i> , 2021, 13, 10092-10099.	5.6	7
22	Reaction path analysis for demethylation process of histone tail lysine residues. , 2010, , .		0