

# Jae Kyoo Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,870  
citations

430874

18  
h-index

752698

20  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1188  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Thermal and Catalytic Decomposition of 2-Hydroxyethylhydrazine and 2-Hydroxyethylhydrazinium Nitrate Ionic Liquid. <i>Journal of Physical Chemistry A</i> , 2022, 126, 373-394.                              | 2.5  | 4         |
| 2  | Spatial localization of charged molecules by salt ions in oil-confined water microdroplets. <i>Science Advances</i> , 2020, 6, .   | 10.3 | 29        |
| 3  | Restricted intramolecular rotation of fluorescent molecular rotors at the periphery of aqueous microdroplets in oil. <i>Scientific Reports</i> , 2020, 10, 16859.  | 3.3  | 22        |
| 4  | Condensing water vapor to droplets generates hydrogen peroxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30934-30941.                             | 7.1  | 104       |
| 5  | Strong Concentration Enhancement of Molecules at the Interface of Aqueous Microdroplets. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9938-9944.  | 2.6  | 35        |
| 6  | Spraying Small Water Droplets Acts as a Bactericide. <i>QRB Discovery</i> , 2020, 1, .   | 1.6  | 25        |
| 7  | Strong Electric Field Observed at the Interface of Aqueous Microdroplets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7423-7428.  | 4.6  | 177       |
| 8  | Spontaneous generation of hydrogen peroxide from aqueous microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19294-19298.                     | 7.1  | 287       |
| 9  | Micrometer-Sized Water Droplets Induce Spontaneous Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 10585-10589.  | 13.7 | 205       |
| 10 | Aqueous microdroplets containing only ketones or aldehydes undergo Dakin and Baeyer-Villiger reactions. <i>Chemical Science</i> , 2019, 10, 10974-10978.   | 7.4  | 81        |
| 11 | Spontaneous formation of gold nanostructures in aqueous microdroplets. <i>Nature Communications</i> , 2018, 9, 1562.   | 12.8 | 124       |
| 12 | Microdroplet fusion mass spectrometry: accelerated kinetics of acid-induced chlorophyll demetallation. <i>Quarterly Reviews of Biophysics</i> , 2017, 50, e2.  | 5.7  | 36        |
| 13 | Abiotic production of sugar phosphates and uridine ribonucleoside in aqueous microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12396-12400. | 7.1  | 166       |
| 14 | Nanotip Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 5542-5548.   | 6.5  | 23        |
| 15 | High-Resolution Live-Cell Imaging and Analysis by Laser Desorption/Ionization Droplet Delivery Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 5453-5461.   | 6.5  | 70        |
| 16 | Acceleration of reaction in charged microdroplets. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 437-444.   | 5.7  | 204       |
| 17 | Microdroplet fusion mass spectrometry for fast reaction kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3898-3903.                             | 7.1  | 197       |
| 18 | High Resolution Mass Spectrometric Imaging for Single Cell Metabolic Analysis. <i>Biophysical Journal</i> , 2014, 106, 798a.   | 0.5  | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Photo-Activated Crosslinking Mass Spectrometry for Studying Biomolecular Interactions. Biophysical Journal, 2014, 106, 459a.  | 0.5 | 1         |
| 20 | Ca <sup>2+</sup> Dynamics in Apoptosis: Real-Time Data and Mathematical Modeling. Biophysical Journal, 2012, 102, 628a.   | 0.5 | 0         |
| 21 | Real-Time Dynamics of Ca <sup>2+</sup> , Caspase-3/7, and Morphological Changes in Retinal Ganglion Cell Apoptosis under Elevated Pressure. PLoS ONE, 2010, 5, e13437.  | 2.5 | 21        |
| 22 | Surface modification of polydimethylsiloxane (PDMS) induced proliferation and neural-like cells differentiation of umbilical cord blood-derived mesenchymal stem cells. Journal of Materials Science: Materials in Medicine, 2008, 19, 2953-2962. | 3.6 | 55        |
| 23 | Neural prosthesis in the wake of nanotechnology: controlled growth of neurons using surface nanostructures. , 2006, 99, 141-144.  |     | 4         |
| 24 | Spatial Patterning of Fibroblast Cells with Fabricating Holographic Patterning on the Photoresponsive Polymer. , 2005, 2005, 4107-10.   |     | 0         |
| 25 | Photo-Triggering of the Membrane Gates in Photo-Responsive Polymer for Drug Release. , 2005, 2005, 5069-72.   |     | 0         |
| 26 | The topographical guidance of neurons cultured on holographic photo-responsive polymer. , 2004, 2004, 4970-3.   |     | 0         |