

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

#	ARTICLE	IF	CITATIONS
19	Neural prosthesis in the wake of nanotechnology: controlled growth of neurons using surface nanostructures. , 2006, 99, 141-144.		4
20	Thermal and Catalytic Decomposition of 2-Hydroxyethylhydrazine and 2-Hydroxyethylhydrazinium Nitrate Ionic Liquid. Journal of Physical Chemistry A, 2022, 126, 373-394.	2.5	4
21	Photo-Activated Crosslinking Mass Spectrometry for Studying Biomolecular Interactions. Biophysical Journal, 2014, 106, 459a.	0.5	1
22	The topographical guidance of neurons cultured on holographic photo-responsive polymer. , 2004, 2004, 4970-3.		0
23	Spatial Patterning of Fibroblast Cells with Fabricating Holographic Patterning on the Photoresponsive Polymer. , 2005, 2005, 4107-10.		0
24	Photo-Triggering of the Membrane Gates in Photo-Responsive Polymer for Drug Release. , 2005, 2005, 5069-72.		0
25	Ca <sup>2+</sup> Dynamics in Apoptosis: Real-Time Data and Mathematical Modeling. Biophysical Journal, 2012, 102, 628a.	0.5	0
26	High Resolution Mass Spectrometric Imaging for Single Cell Metabolic Analysis. Biophysical Journal, 2014, 106, 798a.	0.5	0