

# Je Hyun Bae

## List of Publications by Year in descending order

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29  
papers

614  
citations

623734

14  
h-index

580821

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1012  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemistry at nanoporous interfaces: new opportunity for electrocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 448-463.	2.8	157
2	Hydrogen-atom-mediated electrochemistry. <i>Nature Communications</i> , 2013, 4, 2766.	12.8	54
3	Ion Flow Crossing Over a Polyelectrolyte Diode on a Microfluidic Chip. <i>Small</i> , 2011, 7, 2629-2639.	10.0	34
4	Ultrasensitive Detection of Dopamine with Carbon Nanopipets. <i>Analytical Chemistry</i> , 2019, 91, 12935-12941.	6.5	33
5	Effects of adsorption and confinement on nanoporous electrochemistry. <i>Faraday Discussions</i> , 2013, 164, 361.	3.2	31
6	Bandgap engineered reverse type-I CdTe/InP/ZnS core-shell nanocrystals for the near-infrared. <i>Chemical Communications</i> , 2009, , 1267.	4.1	29
7	Light-guided electrodeposition of non-noble catalyst patterns for photoelectrochemical hydrogen evolution. <i>Energy and Environmental Science</i> , 2015, 8, 3654-3662.	30.8	25
8	Dissolution of Pt during Oxygen Reduction Reaction Produces Pt Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 12618-12621.	6.5	24
9	Photo-Scanning Electrochemical Microscopy on the Nanoscale with Through-Tip Illumination. <i>Analytical Chemistry</i> , 2019, 91, 12601-12605.	6.5	23
10	Scanning Electrochemical Microscopy Study of Electron-Transfer Kinetics and Catalysis at Nanoporous Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20651-20658.	3.1	21
11	Diffuse Layer Effect on Electron-Transfer Kinetics Measured by Scanning Electrochemical Microscopy (SECM). <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1338-1342.	4.6	21
12	In-Channel Electrochemical Detection in the Middle of Microchannel under High Electric Field. <i>Analytical Chemistry</i> , 2012, 84, 901-907.	6.5	20
13	Surface-Charge Effects on Voltammetry in Carbon Nanocavities. <i>Analytical Chemistry</i> , 2019, 91, 5530-5536.	6.5	20
14	Enhanced electrochemical reactions of 1,4-benzoquinone at nanoporous electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10645.	2.8	18
15	Catalytic Electron Transfer at Nanoporous Indium Tin Oxide Electrodes. <i>Electrochimica Acta</i> , 2017, 258, 90-97.	5.2	15
16	Recessed Nanoelectrodes for Nanogap Voltammetry. <i>ChemElectroChem</i> , 2016, 3, 2043-2047.	3.4	11
17	Light-Controlled Nanoparticle Collision Experiments. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2972-2976.	4.6	11
18	Conductometric discrimination of electro-inactive metal ions using nanoporous electrodes. <i>Electrochimica Acta</i> , 2011, 56, 1947-1954.	5.2	10

#	ARTICLE	IF	CITATIONS
19	Nonfaradaic Nanoporous Electrochemistry for Conductometry at High Electrolyte Concentration. <i>Analytical Chemistry</i> , 2015, 87, 2443-2451.	6.5	9
20	Confined Molecular Dynamics for Suppressing Kinetic Loss in Sugar Fuel Cell. <i>Electrochimica Acta</i> , 2016, 187, 457-464.	5.2	9
21	Statistical Mechanics of Molecular Adsorption: Effects of Adsorbate Interaction on Isotherms. <i>Langmuir</i> , 2008, 24, 2569-2572.	3.5	8
22	Practical Model for Imperfect Conductometric Molecular Wire Sensors. <i>Analytical Chemistry</i> , 2009, 81, 578-583.	6.5	8
23	Conduction through a SiO <sub>2</sub> layer studied by electrochemical impedance analysis. <i>Electrochemistry Communications</i> , 2017, 76, 75-78.	4.7	6
24	Gold Microshell Tip for In Situ Electrochemical Raman Spectroscopy. <i>Advanced Materials</i> , 2012, 24, 421-424.	21.0	4
25	Selective Enhancement of Electrochemical Signal Based on the Size of Alcohols Using Nanoporous Platinum. <i>ChemElectroChem</i> , 2021, 8, 2407-2412.	3.4	4
26	Ultra Compact Nanoporous Platinum Coating Improves Neural Recording. <i>Electroanalysis</i> , 2021, 33, 839-844.	2.9	3
27	Oligonucleotide-Based Reusable Electrochemical Silver(I) Sensor and Its Optimization via Probe Packing Density. <i>ACS Omega</i> , 2021, 6, 10801-10806.	3.5	3
28	Mean First Passage Time for the Contact between the Ends of a Chain Polymer. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10468-10473.	2.6	2
29	Excess Grand Potential for a System under an External Field: Effects of External Field Driven Nonextensivity. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7982-7985.	2.6	1