

# Baeck B Choi

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

773  
citations

687363

13  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1311  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromogenic Photonic Crystals Enabled by Novel Vapor-Responsive Shape-Memory Polymers. <i>Advanced Materials</i> , 2015, 27, 3696-3704.	21.0	155
2	Pd-based PdPt(19:1)/C electrocatalyst as an electrode in PEM fuel cell. <i>Electrochemistry Communications</i> , 2007, 9, 378-381.	4.7	102
3	Highly dispersed Pt nanoparticles on nitrogen-doped magnetic carbon nanoparticles and their enhanced activity for methanol oxidation. <i>Carbon</i> , 2007, 45, 2496-2501.	10.3	97
4	Self-assembled self-cleaning broadband anti-reflection coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 84-100.	4.7	92
5	Scalable bottom-up fabrication of colloidal photonic crystals and periodic plasmonic nanostructures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6031.	5.5	50
6	Enhanced Methanol Tolerance of Highly Pd rich Pd-Pt Cathode Electrocatalysts in Direct Methanol Fuel Cells. <i>Electrochimica Acta</i> , 2015, 164, 235-242.	5.2	49
7	Long-term durability test for direct methanol fuel cell made of hydrocarbon membrane. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6924-6933.	7.1	47
8	The Effect of Cathode Structures on Nafion Membrane Durability. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1154-F1162.	2.9	30
9	Outstanding surface plasmon resonance performance enabled by templated oxide gratings. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26078-26087.	2.8	26
10	Periodic arrays of metal nanorings and nanocrescents fabricated by a scalable colloidal templating approach. <i>Journal of Colloid and Interface Science</i> , 2013, 409, 52-58.	9.4	22
11	Preparation and characterization of successively deposited Pt/Ru bimetallic electrocatalysts for the methanol oxidation. <i>Electrochimica Acta</i> , 2006, 52, 1683-1687.	5.2	20
12	Synthesis of Pt and bimetallic PtPd nanostructures on Au nanoparticles for use as methanol tolerant oxygen reduction reaction catalysts. <i>New Journal of Chemistry</i> , 2015, 39, 6034-6039.	2.8	15
13	Pd nanocrystals on WC as a synergistic electrocatalyst for hydrogen oxidation reactions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2125.	2.8	13
14	Enhanced Reliability of Electrochromic Devices with a LiPON Protective Layer. <i>Journal of the Electrochemical Society</i> , 2007, 154, P6.	2.9	12
15	Plasma-induced alloying as a green technology for synthesizing ternary nanoparticles with an early transition metal. <i>Nano Today</i> , 2021, 41, 101316.	11.9	11
16	Sensitive surface plasmon resonance enabled by templated periodic arrays of gold nanodonuts. <i>Nanotechnology</i> , 2016, 27, 195601.	2.6	8
17	Templated fabrication of periodic arrays of metallic and silicon nanorings with complex nanostructures. <i>Nanotechnology</i> , 2015, 26, 055603.	2.6	5
18	Elevated surface plasmon resonance sensing sensitivity of Au-covered silica sphere monolayer prepared by Langmuir-Blodgett coating. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 179-186.	5.8	5

#	ARTICLE	IF	CITATIONS
19	Operational Characteristics of High-Performance kW class Alkaline Electrolyzer Stack for Green Hydrogen Production. Journal of Electrochemical Science and Technology, 2021, 12, 302-307.	2.2	5
20	High Performance CeO <sub>2</sub> - and Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> -Modified Pt/C Catalysts for the Cathode of a DMFC. Journal of the Electrochemical Society, 2009, 156, B801.	2.9	4
21	Improved Surface Plasmon Resonance Sensing Sensitivity due to an Electrochemically Potential-Induced Gold Reconstruction. Journal of Electrochemical Science and Technology, 2021, 12, 167-172.	2.2	3
22	Monitoring electrochemical methanol oxidation and CO coverage using Pt deposited SPR sensor platform. International Journal of Energy Research, 2021, 45, 19535.	4.5	2