

# Byungkwon Lim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/588340/publications.pdf>

Version: 2024-02-01

71  
papers

13,753  
citations

101384

36  
h-index

76769

74  
g-index

77  
all docs

77  
docs citations

77  
times ranked

17626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tannic acid modified antifreezing gelatin organohydrogel for low modulus, high toughness, and sensitive flexible strain sensor. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1665-1675.	3.6	19
2	Flexible Nanoporous Silver Membranes with Unprecedented High Effectiveness for Electromagnetic Interference Shielding. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 245-252.	2.9	24
3	Corrosion-engineered bimetallic oxide electrode as anode for high-efficiency anion exchange membrane water electrolyzer. <i>Chemical Engineering Journal</i> , 2021, 420, 127670.	6.6	51
4	Facile modified polyol synthesis of FeCo nanoparticles with oxyhydroxide surface layer as efficient oxygen evolution reaction electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15398-15409.	3.8	16
5	High-Performance Non-Volatile InGaZnO Based Flash Memory Device Embedded with a Monolayer Au Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1101.	1.9	10
6	High-Efficiency Anion-Exchange Membrane Water Electrolyzer Enabled by Ternary Layered Double Hydroxide Anode. <i>Small</i> , 2021, 17, e2100639.	5.2	49
7	Anion Exchange Membrane Water Electrolysis: High-Efficiency Anion-Exchange Membrane Water Electrolyzer Enabled by Ternary Layered Double Hydroxide Anode ( <i>Small</i> 28/2021). <i>Small</i> , 2021, 17, 2170147.	5.2	1
8	Chemical transformation approach for high-performance ternary NiFeCo metal compound-based water splitting electrodes. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120246.	10.8	67
9	Nickel-Iron nitrides and alloy heterojunction with amorphous N-doped carbon Shell: High-efficiency synergistic electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 566, 150706.	3.1	22
10	Transparent Molecular Adhesive Enabling Mechanically Stable ITO Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3463-3470.	4.0	13
11	Solution-Processable Transparent Organic Molecular Nanoadhesives for Exceptionally Durable Nanowire Electrodes. <i>Advanced Electronic Materials</i> , 2020, 6, 1901440.	2.6	6
12	Electrospun Carbon Nanofibers with Embedded Co-Ceria Nanoparticles for Efficient Hydrogen Evolution and Overall Water Splitting. <i>Materials</i> , 2020, 13, 856.	1.3	20
13	Highly Conductive Ferroelectric Cellulose Composite Papers for Efficient Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2019, 29, 1904066.	7.8	127
14	Multifunctional Nanomaterial-alginate Drug Delivery and Imaging System for Cancer Therapy. <i>Biochip Journal</i> , 2019, 13, 236-242.	2.5	14
15	Design of 2D Nanocrystalline Fe <sub>2</sub> Ni <sub>2</sub> N Coated onto Graphene Nanohybrid Sheets for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 8502-8510.	2.5	25
16	Charge transport effect and photovoltaic conversion of two-dimensional CdSeS quantum dot monolayers in inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11797-11805.	2.7	7
17	In-situ formation of MOF derived mesoporous Co <sub>3</sub> N/amorphous N-doped carbon nanocubes as an efficient electrocatalytic oxygen evolution reaction. <i>Nano Research</i> , 2019, 12, 1605-1611.	5.8	108
18	MXene supported Co <sub>x</sub> A <sub>y</sub> (A = OH, P, Se) electrocatalysts for overall water splitting: unveiling the role of anions in intrinsic activity and stability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27383-27393.	5.2	96

#	ARTICLE	IF	CITATIONS
19	Binary FeCo Oxyhydroxide Nanosheets as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2018, 24, 4724-4728.	1.7	54
20	Chemical transformation of iron alkoxide nanosheets to FeOOH nanoparticles for highly active and stable oxygen evolution electrocatalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 58, 100-104.	2.9	42
21	Manganese oxide with different composition and morphology as electrocatalyst for oxygen evolution reaction. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 257-262.	1.2	28
22	Electrostatically regulated ternary-doped carbon foams with exposed active sites as metal-free oxygen reduction electrocatalysts. <i>Nanoscale</i> , 2018, 10, 19498-19508.	2.8	17
23	Five-minute synthesis of silver nanowires and their roll-to-roll processing for large-area organic light emitting diodes. <i>Nanoscale</i> , 2018, 10, 12087-12092.	2.8	42
24	Direct Chemical Synthesis of Plasmonic Black Colloidal Gold Superparticles with Broadband Absorption Properties. <i>Nano Letters</i> , 2018, 18, 5927-5932.	4.5	34
25	Unveiling the composite structures of emissive consolidated p-n junction nanocells for white light emission. <i>Nanoscale</i> , 2018, 10, 13867-13874.	2.8	0
26	Mesoporous Ni-Fe oxide multi-composite hollow nanocages for efficient electrocatalytic water oxidation reactions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4320-4324.	5.2	108
27	Hydrous RuO <sub>2</sub> nanoparticles as highly active electrocatalysts for hydrogen evolution reaction. <i>Chemical Physics Letters</i> , 2017, 673, 89-92.	1.2	48
28	Chemical effects of organo-silanized SiO <sub>2</sub> nanofillers on epoxy adhesives. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 184-189.	2.9	20
29	Curving silver nanowires using liquid droplets for highly stretchable and durable percolation networks. <i>Nanoscale</i> , 2017, 9, 8938-8944.	2.8	19
30	Mechanically Robust Magnetic Carbon Nanotube Papers Prepared with CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles for Electromagnetic Interference Shielding and Magnetomechanical Actuation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40628-40637.	4.0	41
31	Fully stretchable and highly durable triboelectric nanogenerators based on gold-nanosheet electrodes for self-powered human-motion detection. <i>Nano Energy</i> , 2017, 42, 300-306.	8.2	126
32	Aqueous-phase synthesis of metal nanoparticles using phosphates as stabilizers. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 231-233.	1.2	1
33	UV/ozone treatment for adhesion improvement of copper/epoxy interface. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 199-202.	2.9	20
34	Single layer graphene band hybridization with silver nanoplates: Interplay between doping and plasmonic enhancement. <i>Applied Physics Letters</i> , 2016, 109, 103103.	1.5	5
35	Highly sensitive, tunable, and durable gold nanosheet strain sensors for human motion detection. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5642-5647.	2.7	89
36	Organic Stabilizer-Free Polyol Synthesis of Silver Nanowires for Electrode Applications. <i>Angewandte Chemie</i> , 2016, 128, 11993-11997.	1.6	12

#	ARTICLE	IF	CITATIONS
37	Organic Stabilizer-Free Polyol Synthesis of Silver Nanowires for Electrode Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11814-11818.	7.2	39
38	Fabrication of flexible magnetic papers based on bacterial cellulose and barium hexaferrite with improved mechanical properties. <i>Electronic Materials Letters</i> , 2016, 12, 574-579.	1.0	19
39	Nanostructuring of metal surfaces by corrosion for efficient water splitting. <i>Chemical Physics Letters</i> , 2016, 644, 51-55.	1.2	30
40	Facile synthesis of flower-like $\text{Ni-Co(OH)}_2$ nanostructures for electrochemical water splitting and pseudocapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 175-179.	2.9	18
41	Measurement of Plasmon-Mediated Two-Photon Luminescence Action Cross Sections of Single Gold Bipyramids, Dumbbells, and Hemispherically Capped Cylindrical Nanorods. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28536-28543.	1.5	18
42	Size-tunable and scalable synthesis of uniform copper nanocrystals. <i>RSC Advances</i> , 2015, 5, 2756-2761.	1.7	7
43	Reduction by water for eco-friendly, capping agent-free synthesis of ultrasmall platinum nanocrystals. <i>Chemical Physics Letters</i> , 2014, 595-596, 77-82.	1.2	9
44	Polyol synthesis of silver nanostructures: Inducing the growth of nanowires by a heat-up process. <i>Chemical Physics Letters</i> , 2014, 602, 10-15.	1.2	23
45	Reverse Micelle Synthesis of Colloidal Nickel-Manganese Layered Double Hydroxide Nanosheets and Their Pseudocapacitive Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 14880-14884.	1.7	75
46	Facile synthesis of carbon-supported, ultrasmall ruthenium oxide nanocrystals for supercapacitor electrode materials. <i>Chemical Physics Letters</i> , 2014, 592, 192-195.	1.2	24
47	Highly Stretchable Polymer Transistors Consisting Entirely of Stretchable Device Components. <i>Advanced Materials</i> , 2014, 26, 3706-3711.	11.1	157
48	Highly Stretchable Patterned Gold Electrodes Made of Au Nanosheets. <i>Advanced Materials</i> , 2013, 25, 2707-2712.	11.1	159
49	Aqueous-phase synthesis of silver nanoplates: Enhancing lateral growth via a heat-up process. <i>Chemical Physics Letters</i> , 2013, 568-569, 135-139.	1.2	13
50	Deactivation Behavior of Co/SiC Fischer-Tropsch Catalysts by Formation of Filamentous Carbon. <i>Catalysis Letters</i> , 2013, 143, 18-22.	1.4	25
51	Selective Semihydrogenation of Alkynes on Shape-Controlled Palladium Nanocrystals. <i>Chemistry - an Asian Journal</i> , 2013, 8, 919-925.	1.7	39
52	Galvanic Replacement Reactions in Metal Oxide Nanocrystals. <i>Science</i> , 2013, 340, 964-968.	6.0	472
53	Enhanced light harvesting in bulk heterojunction photovoltaic devices with shape-controlled Ag nanomaterials: Ag nanoparticles versus Ag nanoplates. <i>RSC Advances</i> , 2012, 2, 7268.	1.7	57
54	Metal Nanocrystals with Highly Branched Morphologies. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 76-85.	7.2	543

#	ARTICLE	IF	CITATIONS
55	Mixing an Aqueous Suspension of Pd or Au Nanocrystals with a Less Polar Solvent Can Cause Changes to Size, Morphology, or Both. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6052-6055.	7.2	20
56	Nucleation and growth mechanisms for Pd-Pt bimetallic nanodendrites and their electrocatalytic properties. <i>Nano Research</i> , 2010, 3, 69-80.	5.8	188
57	New insights into the growth mechanism and surface structure of palladium nanocrystals. <i>Nano Research</i> , 2010, 3, 180-188.	5.8	98
58	Shaping a Bright Future for Platinum-Based Alloy Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9819-9820.	7.2	31
59	Beyond the confines of templates. <i>Nature</i> , 2010, 467, 923-924.	13.7	13
60	Synthesis of Pd <sup>+</sup> Au Bimetallic Nanocrystals via Controlled Overgrowth. <i>Journal of the American Chemical Society</i> , 2010, 132, 2506-2507.	6.6	252
61	Shape-Controlled Synthesis of Pd Nanocrystals in Aqueous Solutions. <i>Advanced Functional Materials</i> , 2009, 19, 189-200.	7.8	567
62	Titelbild: Formkontrolle bei der Synthese von Metallnanokristallen: einfache Chemie, komplexe Physik? ( <i>Angew. Chem.</i> 1/2009). <i>Angewandte Chemie</i> , 2009, 121, 1-1.	1.6	25
63	Shape-Controlled Synthesis of Metal Nanocrystals: Simple Chemistry Meets Complex Physics?. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 60-103.	7.2	4,930
64	Cover Picture: Shape-Controlled Synthesis of Metal Nanocrystals: Simple Chemistry Meets Complex Physics? ( <i>Angew. Chem. Int. Ed.</i> 1/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1-1.	7.2	288
65	Twin-Induced Growth of Palladium-Platinum Alloy Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6304-6308.	7.2	119
66	Pd-Pt Bimetallic Nanodendrites with High Activity for Oxygen Reduction. <i>Science</i> , 2009, 324, 1302-1305.	6.0	2,814
67	Synthesis of mesostructured conducting polymer-carbon nanocomposites and their electrochemical performance. <i>Macromolecular Research</i> , 2008, 16, 200-203.	1.0	22
68	Facile Synthesis of Highly Faceted Multi-octahedral Pt Nanocrystals through Controlled Overgrowth. <i>Nano Letters</i> , 2008, 8, 4043-4047.	4.5	236
69	Mechanistic Study of the Synthesis of Au Nanotadpoles, Nanokites, and Microplates by Reducing Aqueous H <sub>4</sub> AuCl <sub>4</sub> with Poly(vinyl pyrrolidone). <i>Langmuir</i> , 2008, 24, 10437-10442.	1.6	130
70	Polyol synthesis of Cu <sub>2</sub> O nanoparticles: use of chloride to promote the formation of a cubic morphology. <i>Journal of Materials Chemistry</i> , 2008, 18, 4069.	6.7	147
71	Facile Synthesis of Bimetallic Nanoplates Consisting of Pd Cores and Pt Shells through Seeded Epitaxial Growth. <i>Nano Letters</i> , 2008, 8, 2535-2540.	4.5	221