Donghoon Han

List of Publications by Year
in descending order

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34	696	566801	552369
papers	citations	15	26
		h-index	g-index

35	35	35	1095
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A regenerative electrochemical sensor based on oligonucleotide for the selective determination of mercury(ii). Analyst, The, 2009, 134, 1857.	1.7	120
2	Mercury(ii) detection by SERS based on a single gold microshell. Chemical Communications, 2010, 46, 5587.	2.2	109
3	Single Entity Electrochemistry in Nanopore Electrode Arrays: Ion Transport Meets Electron Transfer in Confined Geometries. Accounts of Chemical Research, 2020, 53, 719-728.	7.6	50
4	Single occupancy spectroelectrochemistry of freely diffusing flavin mononucleotide in zero-dimensional nanophotonic structures. Faraday Discussions, 2015, 184, 101-115.	1.6	41
5	Electrochemical Signal Amplification for Immunosensor Based on 3D Interdigitated Array Electrodes. Analytical Chemistry, 2014, 86, 5991-5998.	3.2	36
6	Single-molecule spectroelectrochemical cross-correlation during redox cycling in recessed dual ring electrode zero-mode waveguides. Chemical Science, 2017, 8, 5345-5355.	3.7	36
7	Redox Cycling in Nanopore-Confined Recessed Dual-Ring Electrode Arrays. Journal of Physical Chemistry C, 2016, 120, 20634-20641.	1.5	30
8	Electrochemistry at single molecule occupancy in nanopore-confined recessed ring-disk electrode arrays. Faraday Discussions, 2016, 193, 51-64.	1.6	29
9	Ion selective redox cycling in zero-dimensional nanopore electrode arrays at low ionic strength. Nanoscale, 2017, 9, 5164-5171.	2.8	26
10	Asymmetric Nafion-Coated Nanopore Electrode Arrays as Redox-Cycling-Based Electrochemical Diodes. ACS Nano, 2018, 12, 9177-9185.	7.3	24
11	Surface Enhanced Raman Scattering on Nonâ€SERS Active Substrates and In Situ Electrochemical Study based on a Single Gold Microshell. Advanced Materials, 2013, 25, 2056-2061.	11.1	22
12	Zero-mode waveguide nanophotonic structures for single molecule characterization. Journal Physics D: Applied Physics, 2018, 51, 193001.	1.3	22
13	Addressable Direct-Write Nanoscale Filament Formation and Dissolution by Nanoparticle-Mediated Bipolar Electrochemistry. ACS Nano, 2017, 11, 4976-4984.	7.3	20
14	Voltageâ€Gated Nanoparticle Transport and Collisions in Attoliterâ€Volume Nanopore Electrode Arrays. Small, 2018, 14, e1703248.	5.2	17
15	Capture of Single Silver Nanoparticles in Nanopore Arrays Detected by Simultaneous Amperometry and Surface-Enhanced Raman Scattering. Analytical Chemistry, 2019, 91, 4568-4576.	3.2	16
16	Redox Cycling in Individually Encapsulated Attoliter-Volume Nanopores. ACS Nano, 2018, 12, 12923-12931.	7.3	13
17	Electrokinetic concentration on a microfluidic chip using polyelectrolytic gel plugs for small molecule immunoassay. Electrochimica Acta, 2013, 110, 164-171.	2.6	10
18	Effective Electrochemical Activation of Oleate-Residue-Fouled Pt Nanoparticle Catalysts for Methanol and Formic Acid Oxidation. ACS Omega, 2019, 4, 20330-20334.	1.6	10

#	Article	IF	Citations
19	Low-temperature fabrication of crystalline MnCoO spinel film on porous carbon paper for efficient oxygen evolution reaction. Chemical Communications, 2021, 57, 3595-3598.	2.2	8
20	Electrochemical Zero-Mode Waveguide Potential-Dependent Fluorescence of Glutathione Reductase at Single-Molecule Occupancy. Analytical Chemistry, 2022, 94, 3970-3977.	3.2	8
21	In Situ Spectroelectrochemical Investigation of Perovskite Quantum Dots for Tracking Their Transformation. Frontiers in Energy Research, 2021, 8, .	1.2	7
22	Supercritical, Freezing and Thermal Drying Process of Resorcinolâ€Formaldehyde Polymer based Nanoâ€carbons and their Highly Loaded PtRu Anode Electrocatalyst for DMFC. Electroanalysis, 2019, 31, 1311-1315.	1.5	6
23	Mesoporeâ€controllable Carbon Aerogel and their Highly Loaded PtRu Anode Electrocatalyst for DMFC Applications. Electroanalysis, 2020, 32, 104-111.	1.5	6
24	Effects of molecular confinement and crowding on horseradish peroxidase kinetics using a nanofluidic gradient mixer. Lab on A Chip, 2016, 16, 877-883.	3.1	5
25	Directâ€Write Formation and Dissolution of Silver Nanofilaments in Ionic Liquidâ€Polymer Electrolyte Composites. Small, 2018, 14, 1802023.	5.2	4
26	Nanopore-Templated Silver Nanoparticle Arrays Photopolymerized in Zero-Mode Waveguides. Frontiers in Chemistry, 2019, 7, 216.	1.8	4
27	Selective Enhancement of Electrochemical Signal Based on the Size of Alcohols Using Nanoporous Platinum. ChemElectroChem, 2021, 8, 2407-2412.	1.7	4
28	Ultra Compact Nanoporous Platinum Coating Improves Neural Recording. Electroanalysis, 2021, 33, 839-844.	1.5	3
29	Oligonucleotide-Based Reusable Electrochemical Silver(I) Sensor and Its Optimization via Probe Packing Density. ACS Omega, 2021, 6, 10801-10806.	1.6	3
30	Insulating CsPbBr₃ Quantum Dots via Encapsulation with SiO_x: Interfacial Electron Trafficking and Interaction beyond the Insulating Boundary. Journal of Physical Chemistry C, 2022, 126, 7910-7921.	1.5	3
31	Role of electrochemical reactions in the degradation of formamidinium lead halide hybrid perovskite quantum dots. Analyst, The, 2022, 147, 841-850.	1.7	2
32	Influence of applied bias for A-site and X-site ion exchange reaction dynamics in perovskite quantum dots. Journal of Luminescence, 2022, 245, 118776.	1.5	2
33	Electrochemical Zero-Mode Waveguide Studies of Single Enzyme Reactions. , 2018, 2018, .		0
34	Nanopore-Organized Nanoparticle Arrays for Tunable Optical Materials Using Nanobioplar Electrodeposition. ECS Meeting Abstracts, 2018, , .	0.0	0