

Donghoon Han

List of Publications by Year in descending order

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34
papers

696
citations

567281

15
h-index

552781

26
g-index

35
all docs

35
docs citations

35
times ranked

1095
citing authors

#	ARTICLE	IF	CITATIONS
1	A regenerative electrochemical sensor based on oligonucleotide for the selective determination of mercury(II). <i>Analyst</i> , 2009, 134, 1857.	3.5	120
2	Mercury(II) detection by SERS based on a single gold microshell. <i>Chemical Communications</i> , 2010, 46, 5587.	4.1	109
3	Single Entity Electrochemistry in Nanopore Electrode Arrays: Ion Transport Meets Electron Transfer in Confined Geometries. <i>Accounts of Chemical Research</i> , 2020, 53, 719-728.	15.6	50
4	Single occupancy spectroelectrochemistry of freely diffusing flavin mononucleotide in zero-dimensional nanophotonic structures. <i>Faraday Discussions</i> , 2015, 184, 101-115.	3.2	41
5	Electrochemical Signal Amplification for Immunosensor Based on 3D Interdigitated Array Electrodes. <i>Analytical Chemistry</i> , 2014, 86, 5991-5998.	6.5	36
6	Single-molecule spectroelectrochemical cross-correlation during redox cycling in recessed dual ring electrode zero-mode waveguides. <i>Chemical Science</i> , 2017, 8, 5345-5355.	7.4	36
7	Redox Cycling in Nanopore-Confined Recessed Dual-Ring Electrode Arrays. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20634-20641.	3.1	30
8	Electrochemistry at single molecule occupancy in nanopore-confined recessed ring-disk electrode arrays. <i>Faraday Discussions</i> , 2016, 193, 51-64.	3.2	29
9	Ion selective redox cycling in zero-dimensional nanopore electrode arrays at low ionic strength. <i>Nanoscale</i> , 2017, 9, 5164-5171.	5.6	26
10	Asymmetric Nafion-Coated Nanopore Electrode Arrays as Redox-Cycling-Based Electrochemical Diodes. <i>ACS Nano</i> , 2018, 12, 9177-9185.	14.6	24
11	Surface Enhanced Raman Scattering on Non-SERS Active Substrates and In Situ Electrochemical Study based on a Single Gold Microshell. <i>Advanced Materials</i> , 2013, 25, 2056-2061.	21.0	22
12	Zero-mode waveguide nanophotonic structures for single molecule characterization. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 193001.	2.8	22
13	Addressable Direct-Write Nanoscale Filament Formation and Dissolution by Nanoparticle-Mediated Bipolar Electrochemistry. <i>ACS Nano</i> , 2017, 11, 4976-4984.	14.6	20
14	Voltage-Gated Nanoparticle Transport and Collisions in Attoliter-Volume Nanopore Electrode Arrays. <i>Small</i> , 2018, 14, e1703248.	10.0	17
15	Capture of Single Silver Nanoparticles in Nanopore Arrays Detected by Simultaneous Amperometry and Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2019, 91, 4568-4576.	6.5	16
16	Redox Cycling in Individually Encapsulated Attoliter-Volume Nanopores. <i>ACS Nano</i> , 2018, 12, 12923-12931.	14.6	13
17	Electrokinetic concentration on a microfluidic chip using polyelectrolytic gel plugs for small molecule immunoassay. <i>Electrochimica Acta</i> , 2013, 110, 164-171.	5.2	10
18	Effective Electrochemical Activation of Oleate-Residue-Fouled Pt Nanoparticle Catalysts for Methanol and Formic Acid Oxidation. <i>ACS Omega</i> , 2019, 4, 20330-20334.	3.5	10

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19	Low-temperature fabrication of crystalline MnCoO spinel film on porous carbon paper for efficient oxygen evolution reaction. <i>Chemical Communications</i> , 2021, 57, 3595-3598.	4.1	8
20	Electrochemical Zero-Mode Waveguide Potential-Dependent Fluorescence of Glutathione Reductase at Single-Molecule Occupancy. <i>Analytical Chemistry</i> , 2022, 94, 3970-3977.	6.5	8
21	In Situ Spectroelectrochemical Investigation of Perovskite Quantum Dots for Tracking Their Transformation. <i>Frontiers in Energy Research</i> , 2021, 8, .	2.3	7
22	Supercritical, Freezing and Thermal Drying Process of Resorcinol-Formaldehyde Polymer based Nano-carbons and their Highly Loaded PtRu Anode Electrocatalyst for DMFC. <i>Electroanalysis</i> , 2019, 31, 1311-1315.	2.9	6
23	Mesopore-controllable Carbon Aerogel and their Highly Loaded PtRu Anode Electrocatalyst for DMFC Applications. <i>Electroanalysis</i> , 2020, 32, 104-111.	2.9	6
24	Effects of molecular confinement and crowding on horseradish peroxidase kinetics using a nanofluidic gradient mixer. <i>Lab on A Chip</i> , 2016, 16, 877-883.	6.0	5
25	Direct Write Formation and Dissolution of Silver Nanofilaments in Ionic Liquid-Polymer Electrolyte Composites. <i>Small</i> , 2018, 14, 1802023.	10.0	4
26	Nanopore-Templated Silver Nanoparticle Arrays Photopolymerized in Zero-Mode Waveguides. <i>Frontiers in Chemistry</i> , 2019, 7, 216.	3.6	4
27	Selective Enhancement of Electrochemical Signal Based on the Size of Alcohols Using Nanoporous Platinum. <i>ChemElectroChem</i> , 2021, 8, 2407-2412.	3.4	4
28	Ultra Compact Nanoporous Platinum Coating Improves Neural Recording. <i>Electroanalysis</i> , 2021, 33, 839-844.	2.9	3
29	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
30	Insulating CsPbBr ₃ Quantum Dots via Encapsulation with SiO _x : Interfacial Electron Trafficking and Interaction beyond the Insulating Boundary. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7910-7921.	3.1	3
31	Role of electrochemical reactions in the degradation of formamidinium lead halide hybrid perovskite quantum dots. <i>Analyst</i> , 2022, 147, 841-850.	3.5	2
32	Influence of applied bias for A-site and X-site ion exchange reaction dynamics in perovskite quantum dots. <i>Journal of Luminescence</i> , 2022, 245, 118776.	3.1	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. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0