

# Taek Dong Chung

## List of Publications by Citations

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146  
papers

6,742  
citations

37  
h-index

80  
g-index

158  
ext. papers

7,569  
ext. citations

7.9  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
146	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 566-572	28.7	1093
145	Electrochemical non-enzymatic glucose sensors. <i>Analytica Chimica Acta</i> , <b>2006</b> , 556, 46-57	6.6	891
144	Nonenzymatic glucose detection using mesoporous platinum. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3046-9	7.8	507
143	Recent advances in electrochemical non-enzymatic glucose sensors - A review. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1033, 1-34	6.6	367
142	Mussel-inspired encapsulation and functionalization of individual yeast cells. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2795-7	16.4	330
141	Synthesis of a graphene-carbon nanotube composite and its electrochemical sensing of hydrogen peroxide. <i>Electrochimica Acta</i> , <b>2012</b> , 59, 509-514	6.7	166
140	Electrochemistry at nanoporous interfaces: new opportunity for electrocatalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 448-63	3.6	137
139	Graphene-incorporated chitosan substrata for adhesion and differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 933-938	7.3	119
138	Recent advances in miniaturized microfluidic flow cytometry for clinical use. <i>Electrophoresis</i> , <b>2007</b> , 28, 4511-20	3.6	113
137	Ionic strength-controlled virtual area of mesoporous platinum electrode. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4524-5	16.4	113
136	Iontronics. <i>Annual Review of Analytical Chemistry</i> , <b>2015</b> , 8, 441-62	12.5	111
135	Electrochemical nanoneedle biosensor based on multiwall carbon nanotube. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 617-20	7.8	102
134	Electrochemical analysis based on nanoporous structures. <i>Analyst, The</i> , <b>2012</b> , 137, 3891-903	5	91
133	Ionic circuits based on polyelectrolyte diodes on a microchip. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 3830-3	16.4	91
132	Continuous low-voltage dc electroporation on a microfluidic chip with polyelectrolytic salt bridges. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 7761-6	7.8	70
131	Surface-Enhanced Raman Scattering of 4-Cyanobiphenyl on Gold and Silver Nanoparticle Surfaces. <i>Langmuir</i> , <b>2002</b> , 18, 8813-8816	4	66
130	Nonenzymatic continuous glucose monitoring in human whole blood using electrified nanoporous Pt. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 284-91	11.8	65

129	High yield sample preconcentration using a highly ion-conductive charge-selective polymer. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6287-92	7.8	63
128	Cytometry and velocimetry on a microfluidic chip using polyelectrolytic salt bridges. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 2490-5	7.8	62
127	Effect of Nanoporous Structure on Enhanced Electrochemical Reaction. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9546-9553	3.8	60
126	Light-Driven Highly Selective Conversion of CO <sub>2</sub> to Formate by Electrosynthesized Enzyme/Cofactor Thin Film Electrode. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502207	21.8	60
125	Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2764-2771	15.6	58
124	Nanoporous Pt Microelectrode for Neural Stimulation and Recording: In Vitro Characterization. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8721-8726	3.8	58
123	Glucose sensor using a microfabricated electrode and electropolymerized bilayer films. <i>Biosensors and Bioelectronics</i> , <b>2002</b> , 17, 251-9	11.8	58
122	Electrochemical monitoring of proton transfer across liquid/liquid interfaces on the surface of graphite electrodes. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 337-42	7.8	53
121	A label-free DC impedance-based microcytometer for circulating rare cancer cell counting. <i>Lab on A Chip</i> , <b>2013</b> , 13, 970-7	7.2	51
120	Structural and electrochemical features of 3D nanoporous platinum electrodes. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 2029-2035	6.7	51
119	pH-sensitive solid-state electrode based on electrodeposited nanoporous platinum. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 7695-701	7.8	51
118	Microfluidic approaches for gene delivery and gene therapy. <i>Lab on A Chip</i> , <b>2011</b> , 11, 3941-8	7.2	50
117	A portable microfluidic flow cytometer based on simultaneous detection of impedance and fluorescence. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1509-15	11.8	48
116	Integration of a nanoporous platinum thin film into a microfluidic system for non-enzymatic electrochemical glucose sensing. <i>Analytical Sciences</i> , <b>2007</b> , 23, 277-81	1.7	47
115	. <i>Journal of Microelectromechanical Systems</i> , <b>2001</b> , 10, 33-40	2.5	47
114	Enhanced electrocatalysis of PtRu onto graphene separated by Vulcan carbon spacer. <i>Journal of Power Sources</i> , <b>2013</b> , 222, 261-266	8.9	45
113	Monolayer Graphene-Directed Growth and Neuronal Differentiation of Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , <b>2015</b> , 11, 2024-33	4	43
112	Three-Dimensional Interstitial Nanovoid of Nanoparticulate Pt Film Electroplated from Reverse Micelle Solution. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3373-3375	9.6	43

111	Self-assembled monolayer of a redox-active calix[4]arene: voltammetric recognition of the Ba <sup>2+</sup> ion in aqueous media. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 3975-80	7.8	40
110	Single gold microshell tailored to sensitive surface enhanced Raman scattering probe. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 447-51	7.8	38
109	Nanoporous platinum thin films synthesized by electrochemical dealloying for nonenzymatic glucose detection. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5782-7	3.6	37
108	Electrochemical oxidation of hydrogen peroxide at nanoporous platinum electrodes and the application to glutamate microsensor. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1788-1791	6.7	37
107	A Stretchable Ionic Diode from Copolyelectrolyte Hydrogels with Methacrylated Polysaccharides. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806909	15.6	36
106	Hydrogen-atom-mediated electrochemistry. <i>Nature Communications</i> , <b>2013</b> , 4, 2766	17.4	35
105	Nanoporous platinum solid-state reference electrode with layer-by-layer polyelectrolyte junction for pH sensing chip. <i>Lab on A Chip</i> , <b>2011</b> , 11, 664-71	7.2	35
104	Ultrafast active mixer using polyelectrolytic ion extractor. <i>Lab on A Chip</i> , <b>2008</b> , 8, 764-71	7.2	32
103	Electrochemical codeposition of Pt/graphene catalyst for improved methanol oxidation. <i>Current Applied Physics</i> , <b>2015</b> , 15, 219-225	2.6	31
102	Ion flow crossing over a polyelectrolyte diode on a microfluidic chip. <i>Small</i> , <b>2011</b> , 7, 2629-39	11	29
101	Polyelectrolyte junction field effect transistor based on microfluidic chip. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 143506	3.4	29
100	A miniaturized electrochemical system with a novel polyelectrolyte reference electrode and its application to thin layer electroanalysis. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 115, 212-219	8.5	28
99	Nanoconfinement effects in electrochemical reactions. <i>Current Opinion in Electrochemistry</i> , <b>2019</b> , 13, 47-54	7.2	28
98	Ion-to-ion amplification through an open-junction ionic diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13807-13815	11.5	27
97	The Electrochemical Reaction Mechanism and Applications of Quinones. <i>Bulletin of the Korean Chemical Society</i> , <b>2014</b> , 35, 3143-3155	1.2	27
96	Reproducible fabrication of miniaturized glucose sensors: preparation of sensing membranes for continuous monitoring. <i>Biosensors and Bioelectronics</i> , <b>2001</b> , 16, 1079-87	11.8	26
95	Electrochemical signal amplification for immunosensor based on 3D interdigitated array electrodes. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5991-8	7.8	25
94	Dynamic preconcentration of gold nanoparticles for surface-enhanced Raman scattering in a microfluidic system. <i>Small</i> , <b>2012</b> , 8, 378-83	11	25

93	Disposable non-enzymatic blood glucose sensing strip based on nanoporous platinum particles. <i>Applied Materials Today</i> , <b>2018</b> , 10, 24-29	6.6	25
92	Effects of adsorption and confinement on nanoporous electrochemistry. <i>Faraday Discussions</i> , <b>2013</b> , 164, 361-76	3.6	24
91	Nanoengineered micro gold shells for LDI-TOF analysis of small molecules. <i>Analytica Chimica Acta</i> , <b>2012</b> , 736, 1-6	6.6	23
90	A flow cytometry-based submicron-sized bacterial detection system using a movable virtual wall. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2327-33	7.2	22
89	Full-Color-Tunable Nanophotonic Device Using Electrochromic Tungsten Trioxide Thin Film. <i>Nano Letters</i> , <b>2020</b> , 20, 6084-6090	11.5	21
88	Red blood cell quantification microfluidic chip using polyelectrolytic gel electrodes. <i>Electrophoresis</i> , <b>2009</b> , 30, 1464-9	3.6	21
87	Light-guided electrodeposition of non-noble catalyst patterns for photoelectrochemical hydrogen evolution. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3654-3662	35.4	20
86	Surface enhanced Raman scattering on non-SERS active substrates and in situ electrochemical study based on a single gold microshell. <i>Advanced Materials</i> , <b>2013</b> , 25, 2056-61	24	20
85	Electrochemical recognition of Ca <sup>2+</sup> ion in basic aqueous media using quinone-derivatized calix[4]arene. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 2939-2943	6.7	20
84	Miniaturized Reverse Electrodialysis-Powered Biosensor Using Electrochemiluminescence on Bipolar Electrode. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4749-4755	7.8	19
83	Ion bridges in microfluidic systems. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 6, 315-331	2.8	19
82	Thermal characteristics of interpenetrating polymer networks composed of poly(vinyl alcohol) and poly(N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 881-885	2.9	19
81	In vivo calibration of the subcutaneous amperometric glucose sensors using a non-enzyme electrode. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 19, 313-9	11.8	19
80	In-channel electrochemical detection in the middle of microchannel under high electric field. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 901-7	7.8	18
79	SERS decoding of micro gold shells moving in microfluidic systems. <i>Electrophoresis</i> , <b>2010</b> , 31, 1623-9	3.6	17
78	Multiplex immunoassays using virus-tethered gold microspheres by DC impedance-based flow cytometry. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 121-128	11.8	17
77	In situ Confocal Microscopy of Electrochemical Generation and Collision of Emulsion Droplets in Bromide Redox System. <i>Electrochimica Acta</i> , <b>2017</b> , 252, 164-170	6.7	16
76	A rapid field-free electroosmotic micropump incorporating charged microchannel surfaces. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 123, 1161-1168	8.5	16

75	Apparent electrocatalysis on 3D nanoporous platinum film electroplated from hexagonal lyotropic liquid crystalline phase of Triton X-100. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 6143-6148	6.7	16
74	Totally implantable enzymatic biofuel cell and brain stimulator operating in bird through wireless communication. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 171, 112746	11.8	15
73	Enhanced electrochemical reactions of 1,4-benzoquinone at nanoporous electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10645-53	3.6	14
72	Modulation of quinone PCET reaction by Ca <sup>2+</sup> ion captured by calix[4]quinone in water. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18957-67	16.4	14
71	Densely charged polyelectrolyte-stuffed nanochannel arrays for power generation from salinity gradient. <i>Scientific Reports</i> , <b>2016</b> , 6, 26416	4.9	14
70	Real-Space Investigation of Electrical Double Layers. Potential Gradient Measurement with a Nanometer Potential Probe. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17384-17391	3.8	13
69	Selective electrochemical recognition of ions in solution and at self-assembled monolayers. <i>Microchemical Journal</i> , <b>2001</b> , 68, 109-113	4.8	13
68	Robust and High Spatial Resolution Light Addressable Electrochemistry Using Hematite (FeO) Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33662-33668	9.5	13
67	Nanoporous ITO implemented bipolar electrode sensor for enhanced electrochemiluminescence. <i>Electrochimica Acta</i> , <b>2019</b> , 314, 89-95	6.7	12
66	A miniaturized solid salt reverse electrodialysis battery: a durable and fully ionic power source. <i>Chemical Science</i> , <b>2018</b> , 9, 8071-8076	9.4	12
65	Properties of interpenetrating polymer network hydrogels composed of poly(vinyl alcohol) and poly(N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 2041-2045	2.9	12
64	Glucose sensor based on glucose oxidase immobilized by zirconium phosphate. <i>Analytical Sciences</i> , <b>2004</b> , 20, 1635-8	1.7	12
63	Catalytic Electron Transfer at Nanoporous Indium Tin Oxide Electrodes. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 90-97	6.7	11
62	Surface coverage and size effects on electrochemical oxidation of uniform gold nanoparticles. <i>Electrochemistry Communications</i> , <b>2015</b> , 53, 11-14	5.1	11
61	Virus-Tethered Magnetic Gold Microspheres with Biomimetic Architectures for Enhanced Immunoassays. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1484-1489	15.6	11
60	Arrayed hybrid nanoporous Pt pillars. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 2225-2228	5.1	11
59	Structure-selective recognition by voltammetry: enantiomeric determination of amines using azophenolic crowns in aprotic solvent. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7597-600	7.8	11
58	Electrochemical detection of neurotransmitters: Toward synapse-based neural interfaces. <i>Biomedical Engineering Letters</i> , <b>2016</b> , 6, 123-133	3.6	11

57	Photoelectrochemical and Impedance Spectroscopic Analysis of Amorphous Si for Light-Guided Electrodeposition and Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23698-23706	9.5	10
56	Synthesis and Electrochemical Behavior of a New Water Soluble Ca <sup>2+</sup> -selective Ionophore Based on Calix[4]arene-triacid-monoquinone. <i>Chemistry Letters</i> , <b>1998</b> , 27, 1225-1226	1.7	10
55	High-Speed Transmission Control in Gate-Tunable Metasurfaces Using Hybrid Plasmonic Waveguide Mode. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001256	8.1	10
54	Three-dimensionally patterned Ag-Pt alloy catalyst on planar Si photocathodes for photoelectrochemical H evolution. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 4184-4192	3.6	9
53	Electrodeless Reverse Electrodialysis Patches as an Ionic Power Source for Active Transdermal Drug Delivery. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705952	15.6	9
52	Electrokinetic concentration on a microfluidic chip using polyelectrolytic gel plugs for small molecule immunoassay. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 164-171	6.7	9
51	Quinone electrochemistry altered by local hydrophobic environment and hydrogen bonding interactions. <i>Electrochemistry Communications</i> , <b>2014</b> , 41, 39-43	5.1	8
50	Selective and direct immobilization of cysteinyl biomolecules by electrochemical cleavage of azo linkage. <i>Langmuir</i> , <b>2010</b> , 26, 15087-91	4	8
49	Confined Molecular Dynamics for Suppressing Kinetic Loss in Sugar Fuel Cell. <i>Electrochimica Acta</i> , <b>2016</b> , 187, 457-464	6.7	7
48	Mesoporous platinum electrodes for amperometric determination of sugars with anion exchange chromatography. <i>Analytical Sciences</i> , <b>2010</b> , 26, 995-1000	1.7	7
47	New Potassium- and Cesium-selective Ionophoric Bis(crown ether)s Derived from Xanthene-4,5-dicarboxylic Acid. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>1998</b> , 31, 119-129		7
46	Synthesis and Electrochemical Properties of Calix[4]arene-triester-monoquinones. <i>Supramolecular Chemistry</i> , <b>1998</b> , 9, 221-229	1.8	7
45	Universal Suzuki-Miyaura Catalyst-Transfer Polymerization for Precision Synthesis of Strong Donor/Acceptor-Based Conjugated Polymers and Their Sequence Engineering. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 11180-11190	16.4	7
44	Sensitivity-Tunable and Disposable Ion-Sensing Platform Based on Reverse Electrodialysis. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 8776-8783	7.8	6
43	Conductometric discrimination of electro-inactive metal ions using nanoporous electrodes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1947-1954	6.7	6
42	Potentiometric response of a neutral-carrier-based membrane to aqueous mercury in Cl(-)-rich media. <i>Analytical Sciences</i> , <b>2009</b> , 25, 567-70	1.7	6
41	Conduction through a SiO <sub>2</sub> layer studied by electrochemical impedance analysis. <i>Electrochemistry Communications</i> , <b>2017</b> , 76, 75-78	5.1	5
40	Nonfaradaic nanoporous electrochemistry for conductometry at high electrolyte concentration. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2443-51	7.8	5

39	Calcium Ion-Calixquinone Complexes Adsorbed on a Silver Electrode. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19981-19985	3.8	5
38	Hydrogel-Based Iontronics on a Polydimethylsiloxane Microchip. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6606-6614	9.5	5
37	Reverse Electrodialysis-Assisted Solar Water Splitting. <i>Scientific Reports</i> , <b>2017</b> , 7, 12281	4.9	4
36	Current Amplification and Ultrafast Charge Transport in a Single Microdroplet of Bromide/Polybromide-Based Ionic Liquid. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5285-5292	6.1	4
35	Chemically Deposited Cobalt-Based Oxygen-Evolution Electrocatalysts on DOPA-Displaying Viruses. <i>ChemCatChem</i> , <b>2018</b> , 10, 165-169	5.2	4
34	Simultaneous detection of SERS and fluorescence using a single excitation for microbead-based analysis. <i>Journal of Biomedical Nanotechnology</i> , <b>2013</b> , 9, 1241-4	4	4
33	Inverted Ion Current Rectification-Based Chemical Delivery Probes for Stimulation of Neurons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26748-26758	9.5	4
32	Robust Type-specific Hemisynapses Induced by Artificial Dendrites. <i>Scientific Reports</i> , <b>2016</b> , 6, 24210	4.9	4
31	3D interdigitated electrode array in the microchannel free of reference and counter electrodes. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 101, 317-321	11.8	3
30	Gold microshell tip for in situ electrochemical Raman spectroscopy. <i>Advanced Materials</i> , <b>2012</b> , 24, 421-4	24	3
29	Paper-based electrochromic glucose sensor with polyaniline on indium tin oxide nanoparticle layer as the optical readout.. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 203, 114002	11.8	3
28	Cathodic electroorganic reaction on silicon oxide dielectric electrode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 32939-32946	11.5	3
27	Unique Luminescence of Hexagonal Dominant Colloidal Copper Indium Sulphide Quantum Dots in Dispersed Solutions. <i>Scientific Reports</i> , <b>2019</b> , 9, 20144	4.9	3
26	A unified synthetic strategy to introduce heteroatoms via electrochemical functionalization of alkyl organoboron reagents		3
25	In Situ Real-Time Monitoring of ITO Film under a Chemical Etching Process Using Fourier Transform Electrochemical Impedance Spectroscopy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10504-10511	7.8	2
24	Dielectric Breakdown and Post-Breakdown Dissolution of Si/SiO Cathodes in Acidic Aqueous Electrochemical Environment. <i>Scientific Reports</i> , <b>2018</b> , 8, 1911	4.9	2
23	Translocation Pathway-Dependent Assembly of Streptavidin- and Antibody-Binding Filamentous Virus-Like Particles. <i>Small</i> , <b>2017</b> , 13, 1601693	11	2
22	Grand-canonical Monte Carlo simulation study of polyelectrolyte diode <b>2012</b> ,		2



21	In vitro and short-term in vivo characteristics of a Kel-F thin film modified glucose sensor. <i>Analytical Sciences</i> , <b>2003</b> , 19, 1481-6	1.7	2
20	Adopting Back Reduction Current as an Additional Output Signal for Achieving Photoelectrochemical Differentiated Detection.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	2
19	Aqueous ionic effect on electrochemical breakdown of Si-dielectric-electrolyte interface. <i>Scientific Reports</i> , <b>2020</b> , 10, 16795	4.9	2
18	Electrochemistry of the Silicon Oxide Dielectric Layer: Principles, Electrochemical Reactions, and Perspectives. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 3014-3025	4.5	2
17	Robust Induced Presynapse on Artificial Substrates as a Neural Interfacing Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7764-7773	9.5	1
16	Electrochemical Impedance Spectroscopy at Well-Controlled dc Bias for Nanoporous Platinum Microelectrodes in Rat Embryo Brain. <i>ChemElectroChem</i> , <b>2016</b> , 3, 2189-2195	4.3	1
15	Graphene: Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2738-2738	15.6	1
14	Ultra Compact Nanoporous Platinum Coating Improves Neural Recording. <i>Electroanalysis</i> , <b>2021</b> , 33, 839-844	9.44	1
13	Understanding the role of nickel/iron (oxy)hydroxide (NiFeOOH) electrocatalysts on hematite photoanodes. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 501-508	5.8	1
12	Enhanced H Evolution at Patterned MoS-Modified Si-Based Photocathodes by Incorporating the Interfacial 3D Nanostructure of Ag. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46499-46506	9.5	1
11	Bioaerosol monitoring by integrating DC impedance microfluidic cytometer with wet-cyclone air sampler. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 192, 113499	11.8	1
10	Revisiting Thin-Layer Electrochemistry in a Chip-Type Cell for the Study of Electro-organic Reactions.. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	1
9	Neuroigin-1-Modified Electrodes for Specific Coupling with a Presynaptic Neuronal Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21944-21953	9.5	0
8	Selective Enhancement of Electrochemical Signal Based on the Size of Alcohols Using Nanoporous Platinum. <i>ChemElectroChem</i> , <b>2021</b> , 8, 2407-2412	4.3	0
7	Functional Integration of Catalysts with Si Nanowire Photocathodes for Efficient Utilization of Photogenerated Charge Carriers. <i>ACS Omega</i> , <b>2021</b> , 6, 22311-22316	3.9	0
6	Reverse electrodialysis for emerging applications. <i>Bulletin of the Korean Chemical Society</i> ,	1.2	0
5	Electrochemical Recognition of Ions with Self-Assembled Monolayers of Quinone Derivatized Calixarene Disulfide. <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 132, 967-972	1.8	
4	Preparation of Electrochemically Stable and SERS Active Silica@Gold Microshell. <i>Journal of the Korean Electrochemical Society</i> , <b>2013</b> , 16, 46-51		

- 3 Drug Delivery: Electrodeless Reverse Electrodialysis Patches as an Ionic Power Source for Active Transdermal Drug Delivery (Adv. Funct. Mater. 15/2018). *Advanced Functional Materials*, **2018**, 28, 1870100 <sup>15.6</sup>
- 2 Direct electrodeposition of various metal nanocrystals on silicon oxide dielectric layer and insights into electrochemical behavior. *Bulletin of the Korean Chemical Society*, **2022**, 43, 227-231 1.2
- 1 Recent advances in electroanalytical methods for electroorganic synthesis. *Current Opinion in Electrochemistry*, **2022**, 101054 7.2