

Zejun Deng

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

551
citations

623734

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h-index

642732

23
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all docs

27
docs citations

27
times ranked

479
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance non-enzymatic glucose sensor based on nickel-microcrystalline graphite-boron doped diamond complex electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 825-834.	7.8	71
2	A novel modification to boron-doped diamond electrode for enhanced, selective detection of dopamine in human serum. <i>Carbon</i> , 2021, 171, 16-28.	10.3	64
3	Long-term stability of Au nanoparticle-anchored porous boron-doped diamond hybrid electrode for enhanced dopamine detection. <i>Electrochimica Acta</i> , 2018, 271, 84-91.	5.2	61
4	Macroporous diamond foam: A novel design of 3D interconnected heat conduction network for thermal management. <i>Materials and Design</i> , 2018, 156, 32-41.	7.0	31
5	Preparation of macro-porous 3D boron-doped diamond electrode with surface micro structure regulation to enhance electrochemical degradation performance. <i>Chemical Engineering Journal</i> , 2022, 429, 132366.	12.7	28
6	In Situ Measurement of the Size Distribution and Concentration of Insulating Particles by Electrochemical Collision on Hemispherical Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2018, 90, 12923-12929.	6.5	27
7	Diamond for antifouling applications: A review. <i>Carbon</i> , 2022, 196, 923-939.	10.3	25
8	Tribological, anti-corrosive properties and biocompatibility of the micro- and nano-crystalline diamond coated Ti6Al4V. <i>Surface and Coatings Technology</i> , 2014, 258, 1032-1038.	4.8	23
9	The Dependence of Oxidation Parameters and Dyes'™ Molecular Structures on Microstructure of Boron-Doped Diamond in Electrochemical Oxidation Process of Dye Wastewater. <i>Journal of the Electrochemical Society</i> , 2018, 165, H324-H332.	2.9	21
10	Revealing Dynamic Rotation of Single Graphene Nanoplatelets on Electrified Microinterfaces. <i>ACS Nano</i> , 2021, 15, 1250-1258.	14.6	20
11	Roles of Al-doped ZnO (AZO) modification layer on improving electrochemical performance of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ thin film cathode. <i>Ionics</i> , 2017, 23, 2981-2992.	2.4	19
12	The concentration gradient of boron along the growth direction in boron doped chemical vapor deposited diamond. <i>Materials Letters</i> , 2015, 157, 34-37.	2.6	18
13	Nickel-Encapsulated Carbon Nanotubes Modified Boron Doped Diamond Hybrid Electrode for Non-Enzymatic Glucose Sensing. <i>Journal of the Electrochemical Society</i> , 2018, 165, B135-B142.	2.9	17
14	Nickel-induced transformation of diamond into graphite and carbon nanotubes and the electron field emission properties of resulting composite films. <i>Applied Surface Science</i> , 2018, 428, 264-271.	6.1	15
15	A highly stable microporous boron-doped diamond electrode etched by oxygen plasma for enhanced electrochemical ozone generation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106369.	6.7	15
16	A Niobium and Nitrogen Co-Doped DLC Film Electrode and Its Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2017, 164, H1091-H1098.	2.9	14
17	Porous boron-doped diamond for efficient electrocatalytic elimination of azo dye Orange G. <i>Separation and Purification Technology</i> , 2022, 293, 121100.	7.9	14
18	Detection of individual insulating entities by electrochemical blocking. <i>Current Opinion in Electrochemistry</i> , 2021, 25, 100619.	4.8	12

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19	Field emission properties of the caterpillar-like structural carbon film grown by magnetic and electric fields coupling HFCVD. <i>Applied Surface Science</i> , 2017, 423, 788-792.	6.1	9
20	The effect of heat treatment time on the carbon-coated nickel nanoparticles modified boron-doped diamond composite electrode for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 841, 148-157.	3.8	9
21	Thickness effects of Ni on the modified boron doped diamond by thermal catalytic etching for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 353-360.	3.8	9
22	Plasma-enhanced synthesis of carbon nanocone arrays by magnetic and electric fields coupling HFCVD. <i>Surface and Coatings Technology</i> , 2017, 324, 413-418.	4.8	7
23	Unravelling the last milliseconds of an individual graphene nanoplatelet before impact with a Pt surface by bipolar electrochemistry. <i>Chemical Science</i> , 2021, 12, 12494-12500.	7.4	7
24	Detection of individual conducting graphene nanoplatelet by electro-catalytic depression. <i>Electrochimica Acta</i> , 2020, 355, 136805.	5.2	6
25	Template-free synthesis of millimeter-scale carbon nanorod arrays on boron-doped diamond with superior glucose sensing performance. <i>Applied Surface Science</i> , 2022, 572, 151468.	6.1	4
26	Effects of copper interlayer on deposition and flexibility improvement of diamond microelectrode. <i>Surface and Coatings Technology</i> , 2014, 258, 797-803.	4.8	3
27	Engineering an Au-NPs/Nafion modified nanoporous diamond sensing interface for reliable voltammetric quantification of dopamine in human serum. <i>Chemical Engineering Journal</i> , 2022, , 136927.	12.7	2