

Dai Kato

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

1,719

citations

21

h-index

39

g-index

89

ext. papers

1,848

ext. citations

5.3

avg, IF

4.38

L-index

#	Paper	IF	Citations
83	Electrochemical performance of angstrom level flat sputtered carbon film consisting of sp ² and sp ³ mixed bonds. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7144-5	16.4	163
82	A nanocarbon film electrode as a platform for exploring DNA methylation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3716-7	16.4	155
81	Electrochemical DNA methylation detection for enzymatically digested CpG oligonucleotides. <i>Analytical Chemistry</i> , 2011 , 83, 7595-9	7.8	84
80	Structure and electrochemical properties of carbon films prepared by a electron cyclotron resonance sputtering method. <i>Analytical Chemistry</i> , 2007 , 79, 98-105	7.8	84
79	Development of electrogenerated chemiluminescence-based enzyme linked immunosorbent assay for sub-pM detection. <i>Analytical Chemistry</i> , 2010 , 82, 1692-7	7.8	79
78	Nanohybrid carbon film for electrochemical detection of SNPs without hybridization or labeling. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6681-4	16.4	77
77	Determination of DNA methylation using electrochemiluminescence with surface accumulable coreactant. <i>Analytical Chemistry</i> , 2012 , 84, 1799-803	7.8	70
76	Au Nanoparticle-Embedded Carbon Films for Electrochemical As(3+) Detection with High Sensitivity and Stability. <i>Analytical Chemistry</i> , 2016 , 88, 2944-51	7.8	58
75	Efficient direct electron transfer with enzyme on a nanostructured carbon film fabricated with a maskless top-down UV/ozone process. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4840-6	16.4	57
74	Controllable electrode activities of nano-carbon films while maintaining surface flatness by electrochemical pretreatment. <i>Carbon</i> , 2008 , 46, 1918-1926	10.4	55
73	ONO-2506 inhibits spike-wave discharges in a genetic animal model without affecting traditional convulsive tests via gliotransmission regulation. <i>British Journal of Pharmacology</i> , 2013 , 168, 1088-100	8.6	51
72	Direct electrochemical detection of DNA methylation for retinoblastoma and CpG fragments using a nanocarbon film. <i>Analytical Biochemistry</i> , 2010 , 405, 59-66	3.1	47
71	Structure and electrochemical performance of nitrogen-doped carbon film formed by electron cyclotron resonance sputtering. <i>Analytical Chemistry</i> , 2013 , 85, 9845-51	7.8	46
70	Structure and electrochemical characterization of carbon films formed by unbalanced magnetron (UBM) sputtering method. <i>Diamond and Related Materials</i> , 2014 , 49, 25-32	3.5	44
69	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1527-31	11.8	42
68	Fabrication of electrochemically stable fluorinated nano-carbon film compared with other fluorinated carbon materials. <i>Carbon</i> , 2009 , 47, 1943-1952	10.4	40
67	The design of polymer microcarrier surfaces for enhanced cell growth. <i>Biomaterials</i> , 2003 , 24, 4253-64	15.6	36

66	Composite Sulfur Electrode Prepared by High-Temperature Mechanical Milling for use in an All-Solid-State LithiumSulfur Battery with a Li ₃ .25Ge _{0.25} P _{0.75} S ₄ Electrolyte. <i>Electrochimica Acta</i> , 2017 , 258, 110-115	6.7	33
65	Electrochemical determination of oxidative damaged DNA with high sensitivity and stability using a nanocarbon film. <i>Analytical Sciences</i> , 2011 , 27, 703	1.7	26
64	Cytochrome P450 modified polycrystalline indium tin oxide film as a drug metabolizing electrochemical biosensor with a simple configuration. <i>Analytical Chemistry</i> , 2013 , 85, 9996-9	7.8	22
63	Improved detection limit for an electrochemical γ -aminobutyric acid sensor based on stable NADPH detection using an electron cyclotron resonance sputtered carbon film electrode. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 442-449	8.5	22
62	Simultaneous electrochemical analysis of hydrophilic and lipophilic antioxidants in bicontinuous microemulsion. <i>Analytical Chemistry</i> , 2015 , 87, 1489-93	7.8	20
61	Electrochemistry in bicontinuous microemulsions based on control of dynamic solution structures on electrode surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2016 , 25, 13-26	7.6	19
60	Carbon-based electrode materials for DNA electroanalysis. <i>Analytical Sciences</i> , 2013 , 29, 385-92	1.7	19
59	Enzymatically amplified electrochemical detection for lipopolysaccharide using ferrocene-attached polymyxin B and its analogue. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2080-4	11.8	19
58	Human cytochrome P450 3A4 and a carbon nanofiber modified film electrode as a platform for the simple evaluation of drug metabolism and inhibition reactions. <i>Analyst, The</i> , 2013 , 138, 6463-8	5	18
57	Evaluation of electrokinetic parameters for all DNA bases with sputter deposited nanocarbon film electrode. <i>Analytical Chemistry</i> , 2012 , 84, 10607-13	7.8	17
56	Newly developed chemical probes and nano-devices for cellular analysis. <i>Analytical Sciences</i> , 2008 , 24, 55-66	1.7	14
55	Heavy phosphate adsorption on amorphous ITO film electrodes: nano-barrier effect for highly selective exclusion of anionic species. <i>Langmuir</i> , 2007 , 23, 8400-5	4	14
54	Simultaneous determination of glucose and ascorbic acid by using gold electrode modified with ferrocenylundecanethiol monolayer. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 617-621	8.5	14
53	Fluorinated Nanocarbon Film Electrode Capable of Signal Amplification for Lipopolysaccharide Detection. <i>Electrochimica Acta</i> , 2016 , 197, 152-158	6.7	13
52	Improved direct electrochemistry for proteins adsorbed on a UV/ozone-treated carbon nanofiber electrode. <i>Analytical Sciences</i> , 2013 , 29, 611-8	1.7	13
51	Nanohybrid Carbon Film for Electrochemical Detection of SNPs without Hybridization or Labeling. <i>Angewandte Chemie</i> , 2008 , 120, 6783-6786	3.6	13
50	Surface modification of thin polyion complex film for surface plasmon resonance immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 320-325	8.5	12
49	Direct Analysis of Lipophilic Antioxidants of Olive Oils Using Bicontinuous Microemulsions. <i>Analytical Chemistry</i> , 2016 , 88, 1202-9	7.8	10

48	Effect of the sp(2)/sp(3) Ratio in a Hybrid Nanocarbon Thin Film Electrode for Anodic Stripping Voltammetry Fabricated by Unbalanced Magnetron Sputtering Equipment. <i>Analytical Sciences</i> , 2015 , 31, 635-41	1.7	10
47	Structure and Electroanalytical Application of Nitrogen-doped Carbon Thin Film Electrode with Lower Nitrogen Concentration. <i>Analytical Sciences</i> , 2015 , 31, 651-6	1.7	10
46	Graphene Modified Electrode for the Direct Electron Transfer of Bilirubin Oxidase. <i>Electrochemistry</i> , 2015 , 83, 332-334	1.2	10
45	Surface Modification of Thin Polyion Complex Film with a High Specific Binding Affinity and Prevention of Non-specific Adsorption in Surface Plasmon Resonance Immunoassay. <i>Electrochemistry</i> , 2006 , 74, 121-124	1.2	10
44	On-Chip Evaluation of DNA Methylation with Electrochemical Combined Bisulfite Restriction Analysis Utilizing a Carbon Film Containing a Nanocrystalline Structure. <i>Analytical Chemistry</i> , 2017 , 89, 5976-5982	7.8	9
43	Amperometric nitric oxide microsensor using two-dimensional cross-linked Langmuir-Blodgett films of polysiloxane copolymer. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 384-388	8.5	9
42	Permselective monolayer membrane based on two-dimensional cross-linked polysiloxane LB films for hydrogen peroxide detecting glucose sensors. <i>Chemical Communications</i> , 2002 , 2616-7	5.8	9
41	Anodic Stripping Voltammetric Determination of Cd and Pb with Nanocarbon Film Electrode Fabricated by Unbalanced Magnetron Sputtering. <i>Electrochemistry</i> , 2014 , 82, 949-953	1.2	8
40	Electron Cyclotron Resonance-Sputtered Nanocarbon Film Electrode Compared with Diamond-Like Carbon and Glassy Carbon Electrodes as Regards Electrochemical Properties and Biomolecule Adsorption. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 090124	1.4	8
39	Development of a Sputtered Nanocarbon Film Based Microdisk Array Electrode for the Highly Stable Detection of Serotonin. <i>Electroanalysis</i> , 2011 , 23, 827-831	3	8
38	Electrochemical performance at sputter-deposited nanocarbon film with different surface nitrogen-containing groups. <i>Nanoscale</i> , 2019 , 11, 10239-10246	7.7	7
37	Electrochemical microfluidic devices for evaluation of drug metabolism. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 779, 86-91	4.1	7
36	Co-sputter deposited nickel-copper bimetallic nanoalloy embedded carbon films for electrocatalytic biomarker detection. <i>Nanoscale</i> , 2016 , 8, 12887-91	7.7	7
35	Poly-Lysine Modified Nanocarbon Film Electrodes for LPS Detection. <i>Electroanalysis</i> , 2014 , 26, 618-624	3	7
34	An sp ² and sp ³ hybrid nanocrystalline carbon film electrode for anodic stripping voltammetry and its application for electrochemical immunoassay. <i>Analytical Sciences</i> , 2012 , 28, 13-20	1.7	7
33	Electrochemical nitric oxide microsensors based on two-dimensional cross-linked polymeric LB films of oligo(dimethylsiloxane) copolymer. <i>Electrochimica Acta</i> , 2005 , 51, 938-942	6.7	7
32	Surface Accumulable Coreactant for Bright Electrogenerated Chemiluminescence at Trace Level Concentrations. <i>Chemistry Letters</i> , 2009 , 38, 804-805	1.7	6
31	Effect of pKa of Polymer Microcarriers on Growth of Mouse L Cell. <i>Chemistry Letters</i> , 2000 , 29, 1056-1057	1.7	6

30	Hybrid Carbon Film Electrodes for Electroanalysis. <i>Analytical Sciences</i> , 2021 , 37, 37-47	1.7	6
29	High Performance of DET-type Bioelectrocatalysis of Cytochrome c on Indium Tin Oxide Film Electrode with Enzyme-sized Nanostructure. <i>Electrochemistry</i> , 2014 , 82, 322-324	1.2	5
28	Selective Permeation of Nitric Oxide through Two Dimensional Cross-linked Polysiloxane LB Films. <i>Chemistry Letters</i> , 2002 , 31, 1190-1191	1.7	5
27	Gas-phase Treatment Methods for Chemical Termination of Sputtered Nanocarbon Film Electrodes to Suppress Surface Fouling by Proteins. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2019 , 32, 523-528	0.7	5
26	Amplified Zinc Signal at a Nanocarbon Film Electrode for Lipopolysaccharide Detection. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5425-5429	5.6	5
25	Oxidation potential-dependent selective detection of epigenetic 5-hydroxymethylcytosine using nanocarbon film. <i>Sensors and Actuators B: Chemical</i> , 2020 , 314, 128092	8.5	4
24	Local imaging of an electrochemical active/inactive region on a conductive carbon surface by using scanning electrochemical microscopy. <i>Analytical Sciences</i> , 2009 , 25, 645-51	1.7	4
23	Highly-sensitive Biosensors with Chemically-amplified Responses. <i>Electrochemistry</i> , 2008 , 76, 515-521	1.2	4
22	A Highly Sensitive Assay to Determine Atrial Natriuretic Peptides by Electrochemical Enzyme Immunoassays. <i>Electrochemistry</i> , 2006 , 74, 138-140	1.2	4
21	Selective Au Electrodeposition on Au Nanoparticles Embedded in Carbon Film Electrode for Se(IV) Detection. <i>Sensors and Materials</i> , 2019 , 31, 1135	1.5	4
20	Increased electrode activity during geosmin oxidation provided by Pt nanoparticle-embedded nanocarbon film. <i>Nanoscale</i> , 2019 , 11, 8845-8854	7.7	3
19	Chromatographic Determination of Sugar Probes Used for Gastrointestinal Permeability Test by Employing Nickel-Copper Nanoalloy Embedded in Carbon Film Electrodes. <i>Electroanalysis</i> , 2018 , 30, 1407-1415 ³		
18	Electron Cyclotron Resonance-Sputtered Nanocarbon Film Electrode Compared with Diamond-Like Carbon and Glassy Carbon Electrodes as Regards Electrochemical Properties and Biomolecule Adsorption. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 090124	1.4	3
17	Monolithic Au Nanoscale Films with Tunable Nanoporosity Prepared via Dynamic Soft Templating for Electrocatalytic Oxidation of Methanol. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7750-7760	5.6	3
16	Controlling Surface Oxygen Concentration of a Nanocarbon Film Electrode for Improvement of Target Analytes. <i>Analytical Sciences</i> , 2020 , 36, 441-446	1.7	2
15	Supporting effects of a N-doped carbon film electrode on an electrodeposited Ni@Ni(OH) core-shell nanocatalyst in accelerating electrocatalytic oxidation of oligosaccharides.. <i>RSC Advances</i> , 2021 , 11, 13311-13315	3.7	2
14	4.?????????????????????????????????. <i>Electrochemistry</i> , 2013 , 81, 36-42	1.2	1
13	Electrochemical Chemiluminescence Responses on Gold Electrodes Modified with Ferrocenylundecanethiol Monolayer and Poly(divinylferrocene) Film. <i>Electrochemistry</i> , 2006 , 74, 202-204 ^{1.2}		1

12	Stand-Alone Semi-Solid-State Electrochemical Systems Based on Bicontinuous Microemulsion Gel Films. <i>Analytical Chemistry</i> , 2020 , 92, 14031-14037	7.8	1
11	Highly Sensitive Electrochemical Detection of Heavy Metal Ions Using Carbon Film-based Electrodes. <i>Bunseki Kagaku</i> , 2021 , 70, 101-109	0.2	1
10	Electrochemical Detection of Tryptophan Metabolites via Kynurenine Pathway by Using Nanocarbon Films. <i>Electroanalysis</i> ,	3	1
9	Electroanalysis with Carbon Film-based Electrodes 2017 , 1-25		0
8	Lipophilic Vitamin E Diffusion through Bicontinuous Microemulsions. <i>Analytical Chemistry</i> , 2021 , 93, 14231-14237		
7	Structure and Electrochemical Properties of Nitrogen Containing Nanocarbon Films and Their Electroanalytical Application. <i>Bunseki Kagaku</i> , 2021 , 70, 511-520	0.2	
6	Nanocarbon Film-Based Electrochemical Detectors and Biosensors 2015 , 121-136		
5	?????????????????????. <i>Electrochemistry</i> , 2009 , 77, 73-78	1.2	
4	Development of a sputter-deposited nanocarbon thin film electrode for use as a biosensor. <i>Tanso</i> , 2014 , 2014, 133-139	0.1	
3	Suppression of Surface Oxygen on Nanocarbon Film Electrodes for Maintaining Electrode Activity. <i>Analytical Sciences</i> , 2021 , 37, 865-870	1.7	
2	Electrochemical measurements with nanocarbon film electrodes. <i>Denki Kagaku</i> , 2021 , 89, 167-177		0
1	Nanocarbon Film Electrodes Can Expand the Possibility of Electroanalysis. <i>Bunseki Kagaku</i> , 2018 , 67, 635-645	0.2	