

Katsuhiko Sato

List of Publications by Year in descending order

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76
papers

1,664
citations

304368

22
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301761

39
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all docs

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docs citations

78
times ranked

1668
citing authors

#	ARTICLE	IF	CITATIONS
1	pH- and sugar-sensitive layer-by-layer films and microcapsules for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 809-821.	6.6	169
2	Sugar-Induced Disintegration of Layer-by-Layer Assemblies Composed of Concanavalin A and Glycogen. <i>Langmuir</i> , 2005, 21, 797-799.	1.6	122
3	Disintegration of Layer-by-Layer Assemblies Composed of 2-Iminobiotin-Labeled Poly(ethyleneimine) and Avidin. <i>Biomacromolecules</i> , 2005, 6, 27-29.	2.6	94
4	Layer-by-layer construction of protein architectures through avidin-biotin and lectin-sugar interactions for biosensor applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1749-1758.	1.9	92
5	Layer-by-layer deposited nano- and micro-assemblies for insulin delivery: A review. <i>Materials Science and Engineering C</i> , 2014, 34, 384-392.	3.8	71
6	Layer-by-layer polyelectrolyte films containing insulin for pH-triggered release. <i>Journal of Materials Chemistry</i> , 2010, 20, 1546-1552.	6.7	68
7	Layer-by-layer Thin Films and Microcapsules for Biosensors and Controlled Release. <i>Analytical Sciences</i> , 2012, 28, 929-938.	0.8	68
8	Layer-by-layer assembled thin films composed of carboxyl-terminated poly(amidoamine) dendrimer as a pH-sensitive nano-device. <i>Journal of Colloid and Interface Science</i> , 2008, 326, 35-40.	5.0	66
9	Dendrimers in Layer-by-Layer Assemblies: Synthesis and Applications. <i>Molecules</i> , 2013, 18, 8440-8460.	1.7	59
10	Electrochemically Induced Disintegration of Layer-by-Layer-Assembled Thin Films Composed of 2-Iminobiotin-Labeled Poly(ethyleneimine) and Avidin. <i>Biomacromolecules</i> , 2006, 7, 3302-3305.	2.6	57
11	Preparation of Polyelectrolyte-Layered Assemblies Containing Cyclodextrin and Their Binding Properties. <i>Langmuir</i> , 2003, 19, 7406-7412.	1.6	53
12	Multilayer films composed of phenylboronic acid-modified dendrimers sensitive to glucose under physiological conditions. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5809.	2.9	42
13	H ₂ O ₂ -Induced Decomposition of Layer-by-Layer Films Consisting of Phenylboronic Acid-Bearing Poly(allylamine) and Poly(vinyl alcohol). <i>Langmuir</i> , 2014, 30, 9247-9250.	1.6	41
14	Preparation of Insulin-Containing Microcapsules by a Layer-by-Layer Deposition of Concanavalin A and Glycogen. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 386-390.	0.9	40
15	Fluorometric determination of sugars using fluorescein-labeled concanavalin A-glycogen conjugates. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 1297-1301.	1.9	35
16	Insulin-containing layer-by-layer films deposited on poly(lactic acid) microbeads for pH-controlled release of insulin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 89, 242-247.	2.5	33
17	Layer-by-layer films composed of poly(allylamine) and insulin for pH-triggered release of insulin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 274-279.	2.5	29
18	pH-Dependent Release of Insulin from Layer-by-Layer-Deposited Polyelectrolyte Microcapsules. <i>Polymers</i> , 2015, 7, 1269-1278.	2.0	27

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19	Glucose-induced decomposition of layer-by-layer films composed of phenylboronic acid-bearing poly(allylamine) and poly(vinyl alcohol) under physiological conditions. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7796-7802.	2.9	27
20	Sugar-Sensitive Thin Films Composed of Concanavalin A and Glycogen. <i>Analytical Sciences</i> , 2004, 20, 1247-1248.	0.8	25
21	Phenylboronic Acid-Functionalized Layer-by-Layer Assemblies for Biomedical Applications. <i>Polymers</i> , 2017, 9, 202.	2.0	25
22	pH- and sugar-sensitive multilayer films composed of phenylboronic acid (PBA)-modified poly(allylamine hydrochloride) (PBA-PAH) and poly(vinyl alcohol) (PVA): A significant effect of PBA content on the film stability. <i>Materials Science and Engineering C</i> , 2016, 62, 474-479.	3.8	24
23	Loading and release of fluorescent dye from layer-by-layer film-coated magnetic particles in response to hydrogen peroxide. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 92-97.	5.0	22
24	Electrochemical Determination of D-Glucose Using Nortropine- <i>N</i> -oxyl under Physiological Conditions. <i>Electroanalysis</i> , 2015, 27, 2272-2274.	1.5	18
25	Sugar-Sensitive Thin Films Composed of Concanavalin A and Sugar-Bearing Polymers. <i>Analytical Sciences</i> , 2005, 21, 1375-1378.	0.8	17
26	Electrochemical determination of sugars by use of multilayer thin films of ferrocene-appended glycogen and concanavalin A. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 1899-1904.	1.9	17
27	Electrochemically controlled release of -tetrakis(4-N-methylpyridyl)porphine from layer-by-layer thin films. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 141-144.	5.0	16
28	Electrochemical Oxidation of Amines Using a Nitroxyl Radical Catalyst and the Electroanalysis of Lidocaine. <i>Catalysts</i> , 2018, 8, 649.	1.6	16
29	Preparation of poly(methyl methacrylate) microcapsules by in situ polymerization on the surface of calcium carbonate particles. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 123-126.	5.0	15
30	Preparation of avidin-containing polyelectrolyte microcapsules and their uptake and release properties. <i>Polymer Bulletin</i> , 2011, 66, 711-720.	1.7	14
31	Avidin/PSS membrane microcapsules with biotin-binding activity. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 519-524.	5.0	14
32	Release of Insulin from Calcium Carbonate Microspheres with and without Layer-by-Layer Thin Coatings. <i>Polymers</i> , 2014, 6, 2157-2165.	2.0	14
33	Lactate-induced decomposition of layer-by-layer films composed of phenylboronic acid-modified poly(allylamine) and poly(vinyl alcohol) under extracellular tumor conditions. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 302-307.	5.0	14
34	Sugar-dependent solubility and fluorescence property of copolymers consisting of phenylboronic acid and 2-hydroxyethyl methacrylate moieties. <i>Polymer Bulletin</i> , 2010, 65, 807-814.	1.7	12
35	Preparation of dendrimer-loaded microcapsules by a layer-by-layer deposition of polyelectrolytes. <i>Materials Science and Engineering C</i> , 2009, 29, 2024-2028.	3.8	11
36	Sugar-Sensitive Polyelectrolyte Microcapsules Containing Insulin. <i>Kobunshi Ronbunshu</i> , 2010, 67, 544-548.	0.2	10

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37	Preparation of polyelectrolyte giant capsules using cross-linked alginate gels as core material. <i>Polymer Bulletin</i> , 2012, 68, 891-900.	1.7	10
38	Dual pH-sensitive layer-by-layer films containing amphoteric poly(diallylamine-co-maleic acid). <i>Journal of Colloid and Interface Science</i> , 2013, 399, 26-32.	5.0	10
39	Catalysis of electro-oxidation of antibiotics by nitroxyl radicals and the electrochemical sensing of vancomycin. <i>RSC Advances</i> , 2021, 11, 21622-21628.	1.7	10
40	Electrocatalytic Oxidation of Carbohydrates Mediated by Nitroxyl Radical-Modified Electrodes in Aqueous Solution. <i>Electroanalysis</i> , 2018, 30, 24-26.	1.5	9
41	Electrochemical determination of choline using nortropine-N-oxyl for a non-enzymatic system. <i>Sensing and Bio-Sensing Research</i> , 2020, 27, 100302.	2.2	9
42	Use of Amphoteric Copolymer Films as Sacrificial Layers for Constructing Free-Standing Layer-by-Layer Films. <i>Materials</i> , 2013, 6, 2351-2359.	1.3	8
43	Poly(lactic acid) Microparticles Coated with Insulin-Containing Layer-by-Layer Films and Their pH-Dependent Insulin Release. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3100-3105.	0.9	8
44	Preparation of Microparticles Capable of Glucose-Induced Insulin Release under Physiological Conditions. <i>Polymers</i> , 2018, 10, 1164.	2.0	8
45	Polyelectrolyte layered assemblies containing azobenzene-modified polymer and anionic cyclodextrins. <i>Materials Science and Engineering C</i> , 2003, 23, 579-583.	3.8	7
46	Use of anionic polysaccharides for the preparation of insulin-containing layer-by-layer films and their pH stability. <i>Polymer Bulletin</i> , 2012, 69, 229-239.	1.7	7
47	Preparation of Nafion/Polycation Layer-by-Layer Films for Adsorption and Release of Insulin. <i>Polymers</i> , 2018, 10, 812.	2.0	7
48	Preparation of multilayer films using the negative charge of phenylboronic acid and its response to pH change, fructose, and hydrogen peroxide. <i>Colloid and Polymer Science</i> , 2018, 296, 1573-1580.	1.0	7
49	Layered assemblies composed of sulfonated cyclodextrin and poly(allylamine). <i>Colloid and Polymer Science</i> , 2004, 282, 287-290.	1.0	6
50	Preparation of multilayer films consisting of glucose oxidase and poly(amidoamine) dendrimer and their stability. <i>Colloid and Polymer Science</i> , 2015, 293, 2713-2718.	1.0	6
51	Voltammetric pH Measurements Using Azure A-Containing Layer-by-Layer Film Immobilized Electrodes. <i>Polymers</i> , 2020, 12, 2328.	2.0	6
52	Decomposition of Glucose-Sensitive Layer-by-Layer Films Using Hemin, DNA, and Glucose Oxidase. <i>Polymers</i> , 2020, 12, 319.	2.0	6
53	pH-Sensitive Thin Films Composed of Poly(methacrylic acid) and Carboxyl-Terminated Dendrimer. <i>Sensor Letters</i> , 2008, 6, 250-252.	0.4	6
54	Effects of hydrogen peroxide on the electrochemical decomposition of layer-by-layer thin films composed of 2-iminobiotin-labeled poly(ethyleneimine) and avidin. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 396-399.	5.0	5

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55	Ion Permeability of Free-Suspended Layer-by-Layer (LbL) Films Prepared Using an Alginate Scaffold. <i>Polymers</i> , 2013, 5, 696-705.	2.0	5
56	Preparation of H ₂ O ₂ -induced poly (amidoamine) dendrimer-release multilayer films. <i>Colloid and Polymer Science</i> , 2017, 295, 877-882.	1.0	5
57	Comparison of NAD with NADP-dependent Glutamate Dehydrogenase, and CNT with rGO-modified Electrodes, for the Construction of Glutamate Sensors. <i>Electroanalysis</i> , 2018, 30, 2237-2240.	1.5	5
58	Electrochemical Detection of Triglycerides Based on an Enzymatic Reaction and Electrocatalytic Oxidation with Nortropine-N-oxyl. <i>Electroanalysis</i> , 2019, 31, 603-606.	1.5	5
59	Electrode potential-dependent colorimetric response of fluorescein-modified layer-by-layer films in the presence of hydrogen peroxide. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 441-445.	5.0	4
60	Colorimetric response of fluorescein-modified multilayer thin films induced by electrolysis of water. <i>Materials Science and Engineering C</i> , 2011, 31, 258-261.	3.8	4
61	pH-Stability of Layer-by-Layer Thin Films Composed of Carboxyl-Terminated Poly(amidoamine) Dendrimer and Poly(acrylic acid). <i>Kobunshi Ronbunshu</i> , 2009, 66, 75-78.	0.2	3
62	Preparation of Hydrogen Peroxide Sensitive Nanofilms by a Layer-by-Layer Technique. <i>Nanomaterials</i> , 2018, 8, 941.	1.9	3
63	Carbon Nanotube Immobilized Electrode Using Amphiphilic Phospholipid Polymer with Anti-fouling and Dispersion Property for Electrochemical Analysis. <i>Electroanalysis</i> , 2020, 32, 898-901.	1.5	3
64	Adsorption and Release of Rose Bengal on Layer-by-Layer Films of Poly(Vinyl Alcohol) and Poly(Amidoamine) Dendrimers Bearing 4-Carboxyphenylboronic Acid. <i>Polymers</i> , 2020, 12, 1854.	2.0	3
65	Development of Functional Surfaces by Layered Thin Films Containing Proteins. <i>Bunseki Kagaku</i> , 2007, 56, 387-395.	0.1	2
66	Electrochemical Quantitative Evaluation of the Surface Charge of a Poly(1-vinylimidazole) Multilayer Film and Application to Nanopore pH Sensor. <i>Electroanalysis</i> , 2021, 33, 1633-1638.	1.5	2
67	Electropolymerization of Azure A and pH Sensing Using Poly(azure A)-modified Electrodes. <i>Analytical Sciences</i> , 2021, 37, 893-896.	0.8	2
68	Nitroxyl Radical/Copper-Catalyzed Electrooxidation of Alcohols and Amines at Low Potentials. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 1005-1009.	0.6	2
69	Preparation of free-suspended polyelectrolyte multilayer films using an alginate scaffold and their ion permeability. <i>Materials Science and Engineering C</i> , 2012, 32, 2649-2653.	3.8	1
70	Preparation of a PVA/PBA dispersion and its response to glucose, fructose, and hydrogen peroxide. <i>Colloid and Polymer Science</i> , 2017, 295, 1521-1525.	1.0	1
71	Electrochemical Detection of Sesamol Dimer and its Application to Measurement of Radicals. <i>Analytical Sciences</i> , 2021, 37, 633-635.	0.8	1
72	Pyridoxine-selective Fluorescence Quenching by Graphite Oxide-containing Molecularly Imprinted Polymers. <i>Bunseki Kagaku</i> , 2014, 63, 311-315.	0.1	0

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73	Enhancement of Hydrogen Peroxide Reduction Current by an Electrode Modified with Hybrid Polymer/Silica Particles and N , N -diethyl-N -(2-methoxyethyl)-N -methylammonium bis(trifluoromethylsulfonyl)imide. <i>Electroanalysis</i> , 2020, 32, 2113-2117.	1.5	0
74	Electrochemical Cleavage of the Carbon-Boron Bond in <i>p</i> -Acetamidophenylboronic Acid at Neutral pH Conditions. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 1206-1208.	0.6	0
75	Electrochemical Polymerization of Nitroxyl Radical Precursor Containing Phenol Side Chain in Aqueous Solution and Its Application to Electrochemical Analysis of Glucose. <i>Bunseki Kagaku</i> , 2022, 71, 191-196.	0.1	0
76	FAB-MS Measurement of 2-Hydroxyestrone and Monosaccharides Assisted by 4-Pyridineboronic Ester Derivatization. <i>Heterocycles</i> , 2022, 104, 1074.	0.4	0