

Yuya Egawa

List of Publications by Year in descending order

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42
papers

905
citations

516710

16
h-index

454955

30
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45
all docs

45
docs citations

45
times ranked

1153
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical and optical sugar sensors based on phenylboronic acid and its derivatives. <i>Materials Science and Engineering C</i> , 2011, 31, 1257-1264.	7.3	114
2	pH-Induced Interconversion between J-Aggregates and H-Aggregates of 5,10,15,20-Tetrakis(4-sulfonatophenyl)porphyrin in Polyelectrolyte Multilayer Films. <i>Langmuir</i> , 2007, 23, 13146-13150.	3.5	92
3	Total syntheses of three natural products, vignafuran, 2-(4-hydroxy-2-methoxyphenyl)-6-methoxybenzofuran-3-carboxylic acid methyl ester, and coumestrol from a common starting material. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 4339-4346.	1.3	77
4	Construction of positively-charged layered assemblies assisted by cyclodextrin complexation. <i>Chemical Communications</i> , 2002, , 164-165.	4.1	67
5	Colorimetric Sugar Sensing Using Boronic Acid-Substituted Azobenzenes. <i>Materials</i> , 2014, 7, 1201-1220.	2.9	66
6	Multilayered Assemblies Composed of Brilliant Yellow and Poly(allylamine) for an Optical pH Sensor. <i>Analytical Sciences</i> , 2006, 22, 1117-1119.	1.6	50
7	Ortho-azo substituted phenylboronic acids for colorimetric sugar sensors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 3789-3792.	2.2	44
8	Multilayer films composed of phenylboronic acid-modified dendrimers sensitive to glucose under physiological conditions. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5809.	5.8	42
9	Fluorometric determination of heparin based on self-quenching of fluorescein-labeled protamine. <i>Talanta</i> , 2008, 76, 736-741.	5.5	39
10	Sugar response of boronic acid-substituted azobenzene dye-modified polymer. <i>Materials Science and Engineering C</i> , 2009, 29, 115-118.	7.3	34
11	A red fluorophore comprising a borinate-containing xanthene analogue as a polyol sensor. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10031-10036.	2.8	28
12	A Pseudopolyrotaxane for Glucose-Responsive Insulin Release: The Effect of Binding Ability and Spatial Arrangement of Phenylboronic Acid Group. <i>Molecular Pharmaceutics</i> , 2016, 13, 3807-3815.	4.6	24
13	Sugar response of layer-by-layer films composed of poly(vinyl alcohol) and poly(amidoamine) dendrimer bearing 4-carboxyphenylboronic acid. <i>Colloid and Polymer Science</i> , 2015, 293, 1043-1048.	2.1	23
14	Development of a membrane impregnated with a poly(dimethylsiloxane)/poly(ethylene glycol) copolymer for a high-throughput screening of the permeability of drugs, cosmetics, and other chemicals across the human skin. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 66, 41-49.	4.0	20
15	The Use of an Artificial Skin Model to Study Transdermal Absorption of Drugs in Inflamed Skin. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 203-209.	1.4	18
16	Glucose Responsive Rheological Change and Drug Release from a Novel Worm-like Micelle Gel Formed in Cetyltrimethylammonium Bromide/Phenylboronic Acid/Water System. <i>Molecular Pharmaceutics</i> , 2018, 15, 1097-1104.	4.6	16
17	Investigation of factors that cause insulin precipitation and/or amyloid formation in insulin formulations. <i>Journal of Pharmaceutical Health Care and Sciences</i> , 2019, 5, 22.	1.0	13
18	Covalently cross-linked multilayer thin films composed of diazoresin and brilliant yellow for an optical pH sensor. <i>Polymer</i> , 2007, 48, 1455-1458.	3.8	12

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19	Sugar-Sensitive Supramolecular Structures Based on Phenylboronic Acid-Modified Cyclodextrins. <i>Chemical and Pharmaceutical Bulletin</i> , 2013, 61, 1188-1191.	1.3	11
20	Nitrogen-15 NMR Spectroscopy of Sugar Sensor with Bâ€N Interaction as a Key Regulator of Colorimetric Signals. <i>Chemistry Letters</i> , 2010, 39, 1188-1189.	1.3	10
21	Sugar-Responsive Pseudopolyrotaxane Composed of Phenylboronic Acid-Modified Polyethylene Glycol and β -Cyclodextrin. <i>Materials</i> , 2015, 8, 1341-1349.	2.9	9
22	Recognition of Bile Acids at Cyclodextrin-Modified Gold Electrodes. <i>Analytical Sciences</i> , 2005, 21, 361-366.	1.6	8
23	Sugar-responsive pseudopolyrotaxanes and their application in sugar-induced release of PEGylated insulin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 82, 417-424.	1.6	7
24	Cell Adhesive Character of Phenylboronic Acid-Modified Insulin and Its Potential as Long-Acting Insulin. <i>Pharmaceuticals</i> , 2019, 12, 121.	3.8	7
25	Hydrogen Peroxide-Triggered Conversion of Boronic Acid-Appended Insulin into Insulin and Its Application as a Glucose-Responsive Insulin Formulation. <i>Molecular Pharmaceutics</i> , 2021, 18, 4224-4230.	4.6	7
26	Effect of Physiological Changes in the Skin on Systemic Absorption of Tacrolimus Following Topical Application in Rats. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 343-352.	1.4	6
27	A polyrotaxane gel using boronic acid-appended β -cyclodextrin as a hybrid cross-linker. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2017, 89, 281-288.	1.6	6
28	Sugar-Responsive Layer-by-Layer Film Composed of Phenylboronic Acid-Appended Insulin and Poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10	1.3	6
29	Sugar-responsive smart materials based on phenylboronic acid and cyclodextrin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2019, 94, 1-10.	1.6	6
30	Multinuclear NMR Study on the Formation and Polyol-Induced Deformation Mechanisms of Wormlike Micelles Composed of Cetyltrimethylammonium Bromide and 3-Fluorophenylboronic Acid. <i>Langmuir</i> , 2021, 37, 3438-3445.	3.5	6
31	Effects of Poly(allylamine) on the Sugar-Binding Properties of a Phenylboronic Acid-Appended Azo Dye. <i>Bunseki Kagaku</i> , 2006, 55, 1003-1006.	0.2	5
32	Analysis of the Rat Skin Permeation of Hydrophilic Compounds Using the Renkin Function. <i>Biological and Pharmaceutical Bulletin</i> , 2010, 33, 1915-1918.	1.4	5
33	Structural aspects of marked difference in intramolecular exciplex emissions from self-complexes of β -cyclodextrins modified with (R) or (S)-1-(1-aminoethyl)naphthalene. <i>Journal of Molecular Structure</i> , 2002, 602-603, 223-231.	3.6	4
34	Fluorometric determination of inulin using 5-quinolineboronic acid and inulinase. <i>Analytical Biochemistry</i> , 2012, 426, 24-26.	2.4	4
35	Preparation of Polypseudorotaxanes Composed of Cyclodextrin and Polymers in Microspheres. <i>Chemical and Pharmaceutical Bulletin</i> , 2014, 62, 962-966.	1.3	4
36	Analytical Chemistry related to Biofunctional Research. Electrochemical responses of catecholamines at a cyclodextrin monolayer-modified electrode.. <i>Bunseki Kagaku</i> , 2002, 51, 403-407.	0.2	3

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37	Polyol-responsive pseudopolyrotaxanes based on phenylboronic acid-modified polyethylene glycol and cyclodextrins. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2017, 87, 295-303.	1.6	2
38	Evaluation of the Effects of Absorption Enhancers on Caco-2 Cell Monolayers by Using a Pore Permeation Model Involving Two Different Sizes. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 1862-1866.	1.4	1
39	Preclinical Study of Tacrolimus Ointment for Prevention of Its Systemic Absorption in Atopic Dermatitis Model Mice According to Their Skin Conditions. <i>Iryo Yakugaku (Japanese Journal of)</i> Tj ETQq1 1 0.784314.rgBT /Overlock 10	1.4	1
40	Single-step preparation of topological gels using vinyl-modified β -cyclodextrin as a figure-of-six cross-linker. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2018, 92, 311-317.	1.6	1
41	Rotaxa-polymeric-gelation of acrylamides with vinyl- β -cyclodextrin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020, 98, 43-48.	1.6	1
42	Related Topic: Cyclodextrin. , 2017, , 233-239.		0