Makoto Gemmei-Ide

List of Publications by Year
in descending order

52	1,274	394421	361022
papers	citations	19 h-index	35 g-index

54	54	54	1163
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of Water Incorporated in Sulfobetaine Polymer Films as Studied by ATR-FTIR. Macromolecular Bioscience, 2005, 5, 314-321.	4.1	157
2	Correlation between the Structure of Water in the Vicinity of Carboxybetaine Polymers and Their Blood-Compatibility. Langmuir, 2005, 21, 11932-11940.	3.5	157
3	Structure of Water in the Vicinity of Phospholipid Analogue Copolymers As Studied by Vibrational Spectroscopyâ€. Langmuir, 2003, 19, 10260-10266.	3.5	144
4	Antiâ€Biofouling Properties of Polymers with a Carboxybetaine Moiety. Macromolecular Bioscience, 2009, 9, 63-70.	4.1	86
5	Effect of Macrocycles on the Temperature-Responsiveness of Poly[(methoxy diethylene glycol) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.2	57
6	Effect of Zwitterionic Polymers on Wound Healing. Biological and Pharmaceutical Bulletin, 2008, 31, 2309-2315.	1.4	40
7	Structure of water at zwitterionic copolymer filmâ€“liquid water interfaces as examined by the sum frequency generation method. Colloids and Surfaces B: Biointerfaces, 2014, 113, 361-367.	5.0	40
8	Orientational Effect of Surface-Confined Cyclodextrin on the Inclusion of Bisphenols. Langmuir, 2005, 21, 1314-1321.	3.5	37
9	State of Irremovable Water in Solid Polymer Films Examined by Fourier Transform Infrared Spectroscopy I:Â Poly(Ethylene Glycol) Dimethyl Ether. Langmuir, 2006, 22, 2422-2425.	3.5	34
10	Structure of Water Incorporated in Amphoteric Polymer Thin Films as Revealed by FTâ€IR Spectroscopy. Macromolecular Bioscience, 2008, 8, 77-85.	4.1	32
11	The use of a polymer inclusion membrane as a sorbent for online preconcentration in the flow injection determination of thiocyanate impurity in ammonium sulfate fertilizer. Talanta, 2014, 129, 560-564.	5.5	30
12	Inclusion of Bisphenols by Cyclodextrin Derivatives. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2003, 47, 83-90.	1.6	27
13	Structure of water in the vicinity of a zwitterionic polymer brush as examined by sum frequency generation method. Colloids and Surfaces B: Biointerfaces, 2012, 100, 126-132.	5.0	27
14	Sum frequency generation study on the structure of water in the vicinity of an amphoteric polymer brush. Colloids and Surfaces B: Biointerfaces, 2012, 91, 215-218.	5.0	24
15	Chelating resin immobilizing carboxymethylated polyethyleneimine for selective solid-phase extraction of trace elements: Effect of the molecular weight of polyethyleneimine and its carboxymethylation rate. Talanta, 2016, 147, 342-350.	5.5	24
16	Raman spectroscopic study of the structure of water in aqueous solutions of amphoteric polymers. Physical Chemistry Chemical Physics, 2006, 8, 1178.	2.8	23
17	Structure of water in the vicinity of amphoteric polymers as revealed by Raman spectroscopy. Journal of Colloid and Interface Science, 2007, 313, 461-468.	9.4	22
18	Potential of Presep^{Â®} PolyChelate as a Chelating Resin: Comparative Study with Some Aminocarboxylic Acid-type Resins. Analytical Sciences, 2013, 29, 1107-1112.	1.6	22

#	Article	IF	Citations
19	Diffusion-Controlled Recrystallization of Water Sorbed into Poly(meth)acrylates Revealed by Variable-Temperature Mid-Infrared Spectroscopy and Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2017, 121, 5133-5141.	2.6	20
20	Water structure at the interfaces between a zwitterionic self-assembled monolayer/liquid water evaluated by sum-frequency generation spectroscopy. Colloids and Surfaces B: Biointerfaces, 2015, 135, 267-273.	5.0	19
21	Recrystallization of Water in a Non-Water-Soluble Polymer Examined by Fourier Transform Infrared Spectroscopy: Poly(2-methoxyethylacrylate) with Low Water Content. Journal of Physical Chemistry B, 2008, 112, 12863-12866.	2.6	18
22	Raman spectroscopic study on the structure of water in aqueous solution of -amino acids. Journal of Colloid and Interface Science, 2005, 283, 452-458.	9.4	16
23	Recrystallization of Water in Non-Water-Soluble (Meth)Acrylate Polymers Is Not Rare and Is Not Devitrification. Journal of Physical Chemistry B, 2012, 116, 1850-1857.	2.6	16
24	Inclusion of Bisphenols by a Self-Assembled Monolayer of Thiolated Calix[6]arene on a Gold Surface. Environmental Science & Technology, 2005, 39, 5414-5420.	10.0	15
25	Accumulation of phenyl boronic acid-carrying telomers on a gold surface. Journal of Colloid and Interface Science, 2004, 273, 106-114.	9.4	14
26	Interaction Between Polymer Chains Covalently Fixed to Single-Walled Carbon Nanotubes. Macromolecular Chemistry and Physics, 2006, 207, 812-819.	2.2	13
27	Crystal Growth of Ice I_h by Revapor-Deposition and Diffusion Suppression of Monomolecular Water in a Polymer Solid: Spectroscopic Observation of Phase Transition of Water Sorbed into Solid Polystyrene. Journal of Physical Chemistry B, 2008, 112, 13499-13502.	2.6	13
28	Mid-Infrared Spectroscopic Investigation of the Perfect Vitrification of Poly(ethylene glycol) Aqueous Solutions. Langmuir, 2015, 31, 10881-10887.	3.5	13
29	Improvement of Chromium(VI) Extraction from Acidic Solutions Using a Poly(vinyl chloride)-based Polymer Inclusion Membrane with Aliquat 336 as the Carrier. Analytical Sciences, 2017, 33, 643-646.	1.6	13
30	Sum-frequency generation analyses of the structure of water at amphoteric SAMâ€“liquid water interfaces. Colloids and Surfaces B: Biointerfaces, 2014, 121, 264-269.	5.0	12
31	Binding of Î²-amyloid to sulfated sugar residues in a polymer brush. Colloids and Surfaces B: Biointerfaces, 2012, 93, 219-225.	5.0	11
32	A porous sintered material consisting of Presep PolyChelate as a chelating resin and particulate polyethylene as a thermoplastic binder for solid-phase extraction of trace elements. Talanta, 2018, 188, 665-670.	5.5	11
33	Raman spectroscopic study on the structure of water in aqueous solution of zwitterionic surfactants. Journal of Colloid and Interface Science, 2004, 269, 459-465.	9.4	10
34	Structure of Water in the Vicinity of Amphoteric Polymers as Revealed by Vibrational Spectroscopy. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1877-1893.	3.5	10
35	Two-Step Recrystallization of Water in Concentrated Aqueous Solution of Poly(ethylene glycol). Journal of Physical Chemistry B, 2013, 117, 2188-2194.	2.6	10
36	Spectroscopic Evidence of Phase Transition of Monomolecular Water in Solid Polystyrene. Journal of Physical Chemistry B, 2008, 112, 2764-2766.	2.6	9

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37	Phosphomethylated Polyethyleneimine-immobilized Chelating Resin: Role of Phosphomethylation Rate on Solid-Phase Extraction of Trace Elements. Analytical Sciences, 2019, 35, 413-419.	1.6	9
38	Breaking of the Supercooled State of Water by a Nanocavity with Disordered Atomic Configuration I:Â Freezing Behavior of Sorbed Water into Polymethylmethacrylate Film As Examined by Fourier Transform Infrared Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 5533-5535.	2.6	6
39	Effect of end groups of poly(n-butyl methacrylate) on its biocompatibility. Colloids and Surfaces B: Biointerfaces, 2009, 74, 45-50.	5.0	6
40	Thermally Latent Water in a Polymer Matrix. Journal of Physical Chemistry B, 2010, 114, 4310-4312.	2.6	6
41	Molecular Structure and Vibrational Spectra of Water Molecules Sorbed in Poly(2-methoxyethylacrylate) Revealed by Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2021, 125, 12095-12103.	2.6	6
42	Resistance of surface-confined telomers with pendent glucosylurea groups against non-specific adsorption of proteins. Colloids and Surfaces B: Biointerfaces, 2007, 56, 188-196.	5.0	4
43	Applicability of Internal Standardization with Yttrium to the Solid-phase Extraction of Trace Elements in Groundwater and Wastewater Using an Aminocarboxylic Acid-type Chelating Resin. Analytical Sciences, 2021, 37, 1147-1156.	1.6	3
44	Chelating Resins. , 2014, , 1-10.		3
45	Binding of Î²-secretase to a peptide inhibitor-carrying SAM. Colloids and Surfaces B: Biointerfaces, 2010, 78, 155-162.	5.0	2
46	Potential of Carboxymethylated Polyallylamine as a Functional Group on Chelating Resin for Solid-Phase Extraction of Trace Elements. Analytical Sciences, 2020, 36, 583-588.	1.6	2
47	Solid-phase Extraction of Gold(III) Using a Fibrous Adsorbent Immobilizing Pentaethylenehexamine. Bunseki Kagaku, 2014, 63, 785-789.	0.2	0
48	Thermal Decomposition Behavior of a Chelating Resin Immobilizing Carboxymethylated Polyethyleneimine: Possibility of Estimation of Carboxymethylation Rate. Analytical Sciences, 2019, 35, 1161-1164.	1.6	0
49	Correlation between Crystallization Behavior of Water in Polymer Solid and Their Biocompatibility. Hyomen Kagaku, 2012, 33, 15-20.	0.0	0
50	Different Insights of Water Structure in Polymerâ€“Water Systems Observed by Vibrational Spectroscopic and Calorimetric Methods. Oleoscience, 2020, 20, 329-336.	0.0	0
51	Effect of Coexisting Organic Compounds on the Sorption of Inorganic Mercury(II) with Iron(II) Sulfide. Bunseki Kagaku, 2020, 69, 647-651.	0.2	0
52	Mid-infrared Spectroscopic Analysis of Water Structure in Solid Polymers. Bunseki Kagaku, 2022, 71, 235-246.	0.2	0