Hirotaka Ejima

List of Publications by Year
in descending order

52 papers	6,285 citations	136950 32 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	6963 citing authors

#	Article	IF	Citations
1	Synthesis of Dithiocatechol-Pendant Polymers. Journal of the American Chemical Society, 2022, 144, 2450-2454.	13.7	7
2	Ultrastrong underwater adhesion on diverse substrates using non-canonical phenolic groups. Nature Communications, 2022, 13, 1892.	12.8	40
3	Polydopamineâ€Mediated Surface Functionalization of Exosomes. ChemNanoMat, 2021, 7, 592-595.	2.8	8
4	Bio-inspired immobilization of low-fouling phospholipid polymers via a simple dipping process: a comparative study of phenol, catechol and gallol as tethering groups. Polymer Chemistry, 2020, 11, 249-253.	3.9	20
5	Tough Supramolecular Elastomer via Entropy-Driven Hydrogen Bonds between Vicinal Diols. Macromolecules, 2020, 53, 4121-4125.	4.8	21
6	Exploiting Supramolecular Interactions from Polymeric Colloids for Strong Anisotropic Adhesion between Solid Surfaces. Advanced Materials, 2020, 32, e1906886.	21.0	64
7	Effect of molecular weight and polymer composition on gallol-functionalized underwater adhesive. Journal of Materials Chemistry B, 2020, 8, 6798-6801.	5.8	24
8	Modular Assembly of Biomaterials Using Polyphenols as Building Blocks. ACS Biomaterials Science and Engineering, 2019, 5, 5578-5596.	5.2	105
9	Surface Engineering of Extracellular Vesicles through Chemical and Biological Strategies. Chemistry of Materials, 2019, 31, 2191-2201.	6.7	41
10	Protein Adsorption and Coordination-Based End-Tethering of Functional Polymers on Metalâ€“Phenolic Network Films. Biomacromolecules, 2019, 20, 1421-1428.	5.4	35
11	Continuous Metalâ€“Organic Framework Biomineralization on Cellulose Nanocrystals: Extrusion of Functional Composite Filaments. ACS Sustainable Chemistry and Engineering, 2019, 7, 6287-6294.	6.7	49
12	Polymers with autonomous self-healing ability and remarkable reprocessability under ambient humidity conditions. Journal of Materials Chemistry A, 2018, 6, 19643-19652.	10.3	81
13	Stereoselective Synthesis of Tabtoxinine-Î²-lactam by Using the Vinylogous Mukaiyama Aldol Reaction with Acetate-Type Vinylketene Silyl N,O-Acetal and Î±-Keto-Î²-lactam. Organic Letters, 2017, 19, 2530-2532.	4.6	14
14	Tough Elastomers with Superior Selfâ€Recoverability Induced by Bioinspired Multiphase Design. Advanced Functional Materials, 2017, 27, 1701670.	14.9	142
15	Non-swellable self-healing polymer with long-term stability under seawater. RSC Advances, 2017, 7, 19288-19295.	3.6	54
16	Metal-phenolic networks as a versatile platform to engineer nanomaterials and biointerfaces. Nano Today, 2017, 12, 136-148.	11.9	411
17	Tunicate-Inspired Gallol Polymers for Underwater Adhesive: A Comparative Study of Catechol and Gallol. Biomacromolecules, 2017, 18, 2959-2966.	5.4	164
18	Alignment of Gold Nanorods in Directionally Solidified Polymer Blends. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 259-264.	0.3	0

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19	Seawater-Assisted Self-Healing of Catechol Polymers via Hydrogen Bonding and Coordination Interactions. ACS Applied Materials & Interfaces, 2016, 8, 19047-19053.	8.0	138
20	Metalâ€“Phenolic Supramolecular Gelation. Angewandte Chemie - International Edition, 2016, 55, 13803-13807.	13.8	147
21	Nanoparticles assembled via pH-responsive reversible segregation of cyclodextrins in polyrotaxanes. Nanoscale, 2016, 8, 15589-15596.	5.6	22
22	Innovation in Layer-by-Layer Assembly. Chemical Reviews, 2016, 116, 14828-14867.	47.7	678
23	Epitaxy-driven Nanostructure Formation in Polymer Blend Thin Films Containing Regioregular Poly(3-hexylthiophene). Chemistry Letters, 2016, 45, 604-606.	1.3	3
24	Metalâ€“Phenolic Supramolecular Gelation. Angewandte Chemie, 2016, 128, 14007-14011.	2.0	27
25	Antioxidant and Adsorption Properties of Bioinspired Phenolic Polymers: A Comparative Study of Catechol and Gallol. ACS Sustainable Chemistry and Engineering, 2016, 4, 3857-3863.	6.7	78
26	Thermally Induced Charge Reversal of Layer-by-Layer Assembled Single-Component Polymer Films. ACS Applied Materials & Interfaces, 2016, 8, 7449-7455.	8.0	28
27	Formation of Hierarchical Lamellaeâ€inâ€Lamella Nanostructures from Polymer Blends Via Controlled Nonequilibrium Freezing. Macromolecular Rapid Communications, 2015, 36, 1664-1668.	3.9	3
28	Boronateâ€“Phenolic Network Capsules with Dual Response to Acidic pH and cisâ€Diols. Advanced Healthcare Materials, 2015, 4, 1796-1801.	7.6	60
29	Periodic nanopatterns from polymer blends via directional solidification and subsequent epitaxial crystallization. Polymer Journal, 2015, 47, 498-504.	2.7	3
30	pH-Responsive Capsules Engineered from Metal-Phenolic Networks for Anticancer Drug Delivery. Small, 2015, 11, 2032-2036.	10.0	216
31	Versatile Loading of Diverse Cargo into Functional Polymer Capsules. Advanced Science, 2015, 2, 1400007.	11.2	40
32	Surface-Confined Amorphous Films from Metal-Coordinated Simple Phenolic Ligands. Chemistry of Materials, 2015, 27, 5825-5832.	6.7	177
33	Phenolic film engineering for template-mediated microcapsule preparation. Polymer Journal, 2014, 46, 452-459.	2.7	52
34	Endocytic pHâ€Triggered Degradation of Nanoengineered Multilayer Capsules. Advanced Materials, 2014, 26, 1901-1905.	21.0	60
35	Convective polymer assembly for the deposition of nanostructures and polymer thin films on immobilized particles. Nanoscale, 2014, 6, 13416-13420.	5.6	17
36	Engineering Multifunctional Capsules through the Assembly of Metalâ€“Phenolic Networks. Angewandte Chemie - International Edition, 2014, 53, 5546-5551.	13.8	781

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37	Peptideâ€Tunable Drug Cytotoxicity via Oneâ€Step Assembled Polymer Nanoparticles. Advanced Materials, 2014, 26, 2398-2402.	21.0	44
38	Nanoscale engineering of low-fouling surfaces through polydopamine immobilisation of zwitterionic peptides. Soft Matter, 2014, 10, 2656-2663.	2.7	102
39	Coordination-Driven Multistep Assembly of Metalâ€“Polyphenol Films and Capsules. Chemistry of Materials, 2014, 26, 1645-1653.	6.7	303
40	Nearâ€Incompressible Faceted Polymer Microcapsules from Metalâ€Organic Framework Templates. Advanced Materials, 2013, 25, 5767-5771.	21.0	41
41	One-Step Assembly of Coordination Complexes for Versatile Film and Particle Engineering. Science, 2013, 341, 154-157.	12.6	1,683
42	Multivalent Directed Assembly of Colloidal Particles. Angewandte Chemie - International Edition, 2013, 52, 3314-3316.	13.8	7
43	Preparation of Nanoâ€and Microcapsules by Electrophoretic Polymer Assembly. Angewandte Chemie - International Edition, 2013, 52, 6455-6458.	13.8	70
44	Immersive Polymer Assembly on Immobilized Particles for Automated Capsule Preparation. Advanced Materials, 2013, 25, 6874-6878.	21.0	56
45	Engineering Cellular Degradation of Multilayered Capsules through Controlled Cross-Linking. ACS Nano, 2012, 6, 10186-10194.	14.6	49
46	Conjugated polymer nanoparticles hybridized with the peptide aptamer. Chemical Communications, 2011, 47, 7707.	4.1	10
47	Dispersion of Carbon Nanotubes in Water by Noncovalent Wrapping with Peptides Screened by Phage Display. Chemistry Letters, 2011, 40, 880-882.	1.3	5
48	Biological Identification of Peptides that Specifically Bind to Poly(phenylene vinylene) Surfaces: Recognition of the Branched or Linear Structure of the Conjugated Polymer. Langmuir, 2010, 26, 17278-17285.	3.5	33
49	Peptide-Based Switching of Polymer Fluorescence in Aqueous phase. Chemistry of Materials, 2010, 22, 6032-6034.	6.7	13
50	Morphology-Retaining Carbonization of Honeycomb-Patterned Hyperbranched Poly(phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	4.8	49
51	Nanostructured Thin Films of Polymer Blends by Directional Crystallization onto Crystallizable Organic Solvent. Macromolecules, 2007, 40, 6445-6447.	4.8	10
52	A Simple and Feasible Synthetic Strategy towards Poly(4â€thiostyrene). Macromolecular Chemistry and Physics, 0, , 2200092.	2.2	0