Rie Wakabayashi

List of Publications by Year
in descending order

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89 papers	2,117 citations	218381 26 h-index	276539 41 g-index
94 all docs	94 docs citations	94 times ranked	2013 citing authors

#	Article	IF	Citations
1	Synthesis and characterization of cholineâ€“fatty-acid-based ionic liquids: A new biocompatible surfactant. Journal of Colloid and Interface Science, 2019, 551, 72-80.	5.0	104
2	Ionic-Liquid-Based Paclitaxel Preparation: A New Potential Formulation for Cancer Treatment. Molecular Pharmaceutics, 2018, 15, 2484-2488.	2.3	101
3	A Supramolecular Bundling Approach toward the Alignment of Conjugated Polymers. Angewandte Chemie - International Edition, 2006, 45, 1548-1553.	7.2	78
4	Characterization and cytotoxicity evaluation of biocompatible amino acid esters used to convert salicylic acid into ionic liquids. International Journal of Pharmaceutics, 2018, 546, 31-38.	2.6	73
5	A Bevelâ€Gearâ€Shaped Rotor Bearing a Doubleâ€Decker Porphyrin Complex. Chemistry - A European Journal, 2010, 16, 8285-8290.	1.7	72
6	Ionic liquids with methotrexate moieties as a potential anticancer prodrug: Synthesis, characterization and solubility evaluation. Journal of Molecular Liquids, 2019, 278, 226-233.	2.3	71
7	Lock-Arm Supramolecular Ordering: A Molecular Construction Set for Cocrystallizing Organic Charge Transfer Complexes. Journal of the American Chemical Society, 2014, 136, 17224-17235.	6.6	66
8	Biocompatible Ionic Liquid Surfactant-Based Microemulsion as a Potential Carrier for Sparingly Soluble Drugs. ACS Sustainable Chemistry and Engineering, 2020, 8, 6263-6272.	3.2	66
9	Enzymatic preparation of a redox-responsive hydrogel for encapsulating and releasing living cells. Chemical Communications, 2014, 50, 5895-5898.	2.2	57
10	Ionic Liquid-In-Oil Microemulsions Prepared with Biocompatible Choline Carboxylic Acids for Improving the Transdermal Delivery of a Sparingly Soluble Drug. Pharmaceutics, 2020, 12, 392.	2.0	55
11	Ionic liquids with N-methyl-2-pyrrolidonium cation as an enhancer for topical drug delivery: Synthesis, characterization, and skin-penetration evaluation. Journal of Molecular Liquids, 2020, 299, 112166.	2.3	53
12	Biocompatible Ionic Liquid-Mediated Micelles for Enhanced Transdermal Delivery of Paclitaxel. ACS Applied Materials & Interfaces, 2021, 13, 19745-19755.	4.0	53
13	Choline and amino acid based biocompatible ionic liquid mediated transdermal delivery of the sparingly soluble drug acyclovir. International Journal of Pharmaceutics, 2020, 582, 119335.	2.6	52
14	Ionic liquid-mediated transcutaneous protein delivery with solid-in-oil nanodispersions. MedChemComm, 2015, 6, 2124-2128.	3.5	49
15	Development of a novel ionic liquidâ€“curcumin complex to enhance its solubility, stability, and activity. Chemical Communications, 2019, 55, 7737-7740.	2.2	49
16	Insulin Transdermal Delivery System for Diabetes Treatment Using a Biocompatible Ionic Liquid-Based Microemulsion. ACS Applied Materials & Interfaces, 2021, 13, 42461-42472.	4.0	42
17	Design and Characterization of Fatty Acid-Based Amino Acid Ester as a New â€œGreenâ€•Hydrophobic Ionic Liquid for Drug Delivery. ACS Sustainable Chemistry and Engineering, 2020, 8, 13660-13671.	3.2	39
18	Solidâ€inâ€oil nanodispersions for transdermal drug delivery systems. Biotechnology Journal, 2016, 11, 1375-1385.	1.8	38

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19	Biocompatible Ionic Liquid Enhances Transdermal Antigen Peptide Delivery and Preventive Vaccination Effect. Molecular Pharmaceutics, 2020, 17, 3845-3856.	2.3	37
20	In vivo biocompatibility, pharmacokinetics, antitumor efficacy, and hypersensitivity evaluation of ionic liquid-mediated paclitaxel formulations. International Journal of Pharmaceutics, 2019, 565, 219-226.	2.6	35
21	Protein-Grafted Polymers Prepared Through a Site-Specific Conjugation by Microbial Transglutaminase for an Immunosorbent Assay. Biomacromolecules, 2017, 18, 422-430.	2.6	34
22	Genipin-stabilized caseinate-chitosan nanoparticles for enhanced stability and anti-cancer activity of curcumin. Colloids and Surfaces B: Biointerfaces, 2018, 164, 308-315.	2.5	34
23	Olefin Metathesis of the Aligned Assemblies of Conjugated Polymers Constructed through Supramolecular Bundling. Journal of the American Chemical Society, 2006, 128, 8744-8745.	6.6	33
24	Primary Amine-Clustered DNA Aptamer for DNAâ€“Protein Conjugation Catalyzed by Microbial Transglutaminase. Bioconjugate Chemistry, 2017, 28, 2954-2961.	1.8	31
25	Solid-in-Oil Peptide Nanocarriers for Transcutaneous Cancer Vaccine Delivery against Melanoma. Molecular Pharmaceutics, 2018, 15, 955-961.	2.3	30
26	Co-amorphous formation of piroxicam-citric acid to generate supersaturation and improve skin permeation. European Journal of Pharmaceutical Sciences, 2021, 158, 105667.	1.9	29
27	Formation and potential application of micelles composed of biocompatible N-lauroyl-amino acid ionic liquids surfactant. Journal of Molecular Liquids, 2020, 320, 114424.	2.3	26
28	Lipid based biocompatible ionic liquids: synthesis, characterization and biocompatibility evaluation. Chemical Communications, 2020, 56, 13756-13759.	2.2	25
29	Biocompatible ionic liquids assisted transdermal co-delivery of antigenic protein and adjuvant for cancer immunotherapy. International Journal of Pharmaceutics, 2021, 601, 120582.	2.6	25
30	Allosteric function facilitates template assisted olefin metathesis. Chemical Communications, 2005, , 5742.	2.2	23
31	Designer aromatic peptide amphiphiles for self-assembly and enzymatic display of proteins with morphology control. Chemical Communications, 2019, 55, 640-643.	2.2	23
32	Effective transgene expression without toxicity by intraperitoneal administration of PEG-detachable polyplex micelles in mice with peritoneal dissemination. Journal of Controlled Release, 2012, 160, 542-551.	4.8	22
33	Favipiravir-Based Ionic Liquids as Potent Antiviral Drugs for Oral Delivery: Synthesis, Solubility, and Pharmacokinetic Evaluation. Molecular Pharmaceutics, 2021, 18, 3108-3115.	2.3	22
34	Enzymatically prepared redoxâ€responsive hydrogels as potent matrices for hepatocellular carcinoma cell spheroid formation. Biotechnology Journal, 2016, 11, 1452-1460.	1.8	21
35	Diglycolic amic acid-modified E. coli as a biosorbent for the recovery of rare earth elements. Biochemical Engineering Journal, 2016, 113, 102-106.	1.8	21
36	Lipid-Based Ionic-Liquid-Mediated Nanodispersions as Biocompatible Carriers for the Enhanced Transdermal Delivery of a Peptide Drug. ACS Applied Bio Materials, 2021, 4, 6256-6267.	2.3	21

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37	Mechanically Interlocked Porphyrin Gears Propagating Two Different Rotational Frequencies. European Journal of Organic Chemistry, 2011, 2011, 1831-1836.	1.2	20
38	Dual blockade of phosphatidylinositol 3â€²-kinase and mitogen-activated protein kinase pathways overcomes paclitaxel-resistance in colorectal cancer. Cancer Letters, 2011, 306, 151-160.	3.2	19
39	Protein supramolecular complex formation by site-specific avidinâ€“biotin interactions. Organic and Biomolecular Chemistry, 2013, 11, 914-922.	1.5	18
40	Self-Assembled Reduced Albumin and Glycol Chitosan Nanoparticles for Paclitaxel Delivery. Langmuir, 2019, 35, 2610-2618.	1.6	18
41	Enzymatic Fabrication of Protein-Decorated Gold Nanoparticles by the Aid of Artificial Peptides with Gold-Binding Affinity. Langmuir, 2013, 29, 15596-15605.	1.6	16
42	Transcutaneous immunization against cancer using solid-in-oil nanodispersions. MedChemComm, 2015, 6, 1387-1392.	3.5	16
43	Transcutaneous Codelivery of Tumor Antigen and Resiquimod in Solid-in-Oil Nanodispersions Promotes Antitumor Immunity. ACS Biomaterials Science and Engineering, 2019, 5, 2297-2306.	2.6	16
44	Enzymatic Cellâ€Surface Decoration with Proteins using Amphiphilic Lipidâ€Fused Peptide Substrates. Chemistry - A European Journal, 2019, 25, 7315-7321.	1.7	16
45	Methotrexate-based ionic liquid as a potent anticancer drug for oral delivery: In vivo pharmacokinetics, biodistribution, and antitumor efficacy. International Journal of Pharmaceutics, 2021, 608, 121129.	2.6	15
46	Unexpected Effects of Terminal Olefins on a Cooperative Recognition System that Implicate Olefinâ€“Olefin Interactions. Angewandte Chemie - International Edition, 2009, 48, 6667-6670.	7.2	14
47	Enzymatic preparation of streptavidin-immobilized hydrogel using a phenolated linear poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over	1.8	14
48	Characterization of enzymatically gellable, phenolated linear poly(ethylene glycol) with different molecular weights for encapsulating living cells. Biochemical Engineering Journal, 2015, 93, 25-30.	1.8	14
49	Design of Lipidâ€“Protein Conjugates Using Amphiphilic Peptide Substrates of Microbial Transglutaminase. ACS Applied Bio Materials, 2018, 1, 1823-1829.	2.3	14
50	Split Spy0128 as a Potent Scaffold for Protein Cross-Linking and Immobilization. Bioconjugate Chemistry, 2013, 24, 242-250.	1.8	13
51	Enzyme-mediated preparation of hydrogels composed of poly(ethylene glycol) and gelatin as cell culture platforms. RSC Advances, 2015, 5, 3070-3073.	1.7	13
52	Toward the alignment of conjugated polymers into anisotropically-ordered structure. New Journal of Chemistry, 2007, 31, 790.	1.4	12
53	Supramolecular Assemblies of Polyaniline through Cooperative Bundling by a Palladiumâ€Complexâ€Appended Synthetic Crossâ€Linker. Chemistry - A European Journal, 2009, 15, 12627-12635.	1.7	12
54	Liquid Marbles as an Easyâ€toâ€Handle Compartment for Cellâ€Free Synthesis and In Situ Immobilization of Recombinant Proteins. Biotechnology Journal, 2018, 13, 1800085.	1.8	12

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55	Mechanistic investigation of transcutaneous protein delivery using solid-in-oil nanodispersion: A case study with phycocyanin. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 44-50.	2.0	11
56	Enzymatically Prepared Dual Functionalized Hydrogels with Gelatin and Heparin To Facilitate Cellular Attachment and Proliferation. ACS Applied Bio Materials, 2019, 2, 2600-2609.	2.3	11
57	Poly(ethylene glycol)-based biofunctional hydrogels mediated by peroxidase-catalyzed cross-linking reactions. Polymer Journal, 2020, 52, 899-911.	1.3	11
58	Transdermal Delivery of Antigenic Protein Using Ionic Liquid-Based Nanocarriers for Tumor Immunotherapy. ACS Applied Bio Materials, 2022, 5, 2586-2597.	2.3	11
59	Transcutaneous immunotherapy of pollinosis using solid-in-oil nanodispersions loaded with T cell epitope peptides. International Journal of Pharmaceutics, 2017, 529, 401-409.	2.6	10
60	Transcutaneous Cancer Vaccine Using a Reverse Micellar Antigen Carrier. Molecular Pharmaceutics, 2020, 17, 645-655.	2.3	10
61	Construction of higher-order cellular microstructures by a self-wrapping co-culture strategy using a redox-responsive hydrogel. Scientific Reports, 2020, 10, 6710.	1.6	10
62	A Novel Binary Supercooled Liquid Formulation for Transdermal Drug Delivery. Biological and Pharmaceutical Bulletin, 2020, 43, 393-398.	0.6	9
63	Dual-Functionalizable Streptavidinâ€“SpyCatcher-Fused Proteinâ€“Polymer Hydrogels as Scaffolds for Cell Culture. ACS Applied Bio Materials, 2020, 3, 7734-7742.	2.3	9
64	Linear Polymerization of Protein by Sterically Controlled Enzymatic Cross-Linking with a Tyrosine-Containing Peptide Loop. ACS Omega, 2020, 5, 5160-5169.	1.6	9
65	A nano-sized gel-in-oil suspension for transcutaneous protein delivery. International Journal of Pharmaceutics, 2019, 567, 118495.	2.6	8
66	pH-Responsive Self-Assembly of Designer Aromatic Peptide Amphiphiles and Enzymatic Post-Modification of Assembled Structures. International Journal of Molecular Sciences, 2021, 22, 3459.	1.8	8
67	Alternating Arrays of Different Conjugated Polymers Utilizing a Synthetic Crossâ€Linker. Chemistry - A European Journal, 2011, 17, 1793-1797.	1.7	7
68	Redox-responsive functionalized hydrogel marble for the generation of cellular spheroids. Journal of Bioscience and Bioengineering, 2020, 130, 416-423.	1.1	7
69	BODIPY-labeled Fluorescent Aptamer Sensors for Turn-on Sensing of Interferon-gamma and Adenine Compounds on Cells. Analytical Sciences, 2016, 32, 543-547.	0.8	6
70	Transcutaneous Delivery of Immunomodulating Pollen Extract-Galactomannan Conjugate by Solid-in-Oil Nanodispersions for Pollinosis Immunotherapy. Pharmaceutics, 2019, 11, 563.	2.0	6
71	Extending the Half-Life of a Protein in Vivo by Enzymatic Labeling with Amphiphilic Lipopeptides. Bioconjugate Chemistry, 2021, 32, 655-660.	1.8	6
72	Hydrophobic immiscibility controls self-sorting or co-assembly of peptide amphiphiles. Chemical Communications, 2022, 58, 585-588.	2.2	6

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73	The self-assembly and secondary structure of peptide amphiphiles determine the membrane permeation activity. RSC Advances, 2014, 4, 30654-30657.	1.7	5
74	A novel surface-coated nanocarrier for efficient encapsulation and delivery of camptothecin to cells. MedChemComm, 2014, 5, 1515-1519.	3.5	5
75	Enhanced Potential of Therapeutic Applications of Curcumin Using Solid-in-Water Nanodispersion Technique. Journal of Chemical Engineering of Japan, 2019, 52, 138-143.	0.3	5
76	Design of Swollen Lipidic Cubic Phase to Increase Transcutaneous Penetration of Biomacromolecules. ACS Applied Materials & Interfaces, 2021, 13, 54753-54761.	4.0	5
77	Impaired activities of cyclic adenosine monophosphateâ€responsive element binding protein, protein kinase A and calciumâ€independent phospholipase A2 are involved in deteriorated regeneration of cirrhotic liver after partial hepatectomy in rats. Hepatology Research, 2011, 41, 1110-1119.	1.8	4
78	Formation and Characterization of Caseinateâ€“Chitosan Nanocomplexes for Encapsulation of Curcumin. Journal of Chemical Engineering of Japan, 2018, 51, 445-453.	0.3	4
79	Solid-in-oil nanodispersions for intranasal vaccination: Enhancement of mucosal and systemic immune responses. International Journal of Pharmaceutics, 2019, 572, 118777.	2.6	4
80	Effective Transcutaneous Delivery of Hyaluronic Acid Using an Easy-to-Prepare Reverse Micelle Formulation. Cosmetics, 2020, 7, 52.	1.5	4
81	A solid-in-oil-in-water emulsion: An adjuvant-based immune-carrier enhances vaccine effect. Biomaterials, 2022, 282, 121385.	5.7	4
82	Biocatalytic Formation of Gold Nanoparticles Decorated with Functional Proteins inside Recombinant Escherichia coli Cells. Analytical Sciences, 2016, 32, 295-300.	0.8	3
83	Complementary interaction with peptide amphiphiles guides size-controlled assembly of small molecules for intracellular delivery. Chemical Communications, 2019, 55, 6997-7000.	2.2	3
84	Cross-linked conjugated polymer assemblies at the airâ€“water interface through supramoleculer bundling. Dalton Transactions, 2013, 42, 15911.	1.6	2
85	Effect of macromolecular crowding on the conformational behaviour of a porphyrin rotor. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 369, 115-118.	2.0	2
86	Solid-in-Oil Nanodispersions for Transcutaneous Immunotherapy of Japanese Cedar Pollinosis. Pharmaceutics, 2020, 12, 240.	2.0	1
87	Cover Picture: A Supramolecular Bundling Approach toward the Alignment of Conjugated Polymers (Angew. Chem. Int. Ed. 10/2006). Angewandte Chemie - International Edition, 2006, 45, 1485-1485.	7.2	0
88	Inside Cover: Supramolecular Assemblies of Polyaniline through Cooperative Bundling by a Palladium-Complex-Appended Synthetic Cross-Linker (Chem. Eur. J. 46/2009). Chemistry - A European Journal, 2009, 15, 12534-12534.	1.7	0
89	â€Original Contributionâ€˜ Preparation of Multiple Emulsions to Depress the Release of Drugs and Enhanced Permeation Effect in Transdermal Delivery. Membrane, 2013, 38, 92-96.	0.0	0