

Safrina Dyah Hardiningtyas

List of Publications by Year in descending order

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124
papers

3,347
citations

136740

32
h-index

174990

52
g-index

126
all docs

126
docs citations

126
times ranked

3228
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective extraction and recovery of rare earth metals from phosphor powders in waste fluorescent lamps using an ionic liquid system. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 79-88.	6.5	213
2	Enzymatic <i>in situ</i> saccharification of cellulose in aqueous-ionic liquid media. <i>Biotechnology Letters</i> , 2008, 30, 1037-1040.	1.1	196
3	Water-in-ionic liquid microemulsions as a new medium for enzymatic reactions. <i>Green Chemistry</i> , 2008, 10, 497.	4.6	142
4	Synthesis and characterization of choline-based fatty-acid-based ionic liquids: A new biocompatible surfactant. <i>Journal of Colloid and Interface Science</i> , 2019, 551, 72-80.	5.0	104
5	Ionic-Liquid-Based Paclitaxel Preparation: A New Potential Formulation for Cancer Treatment. <i>Molecular Pharmaceutics</i> , 2018, 15, 2484-2488.	2.3	101
6	Recent Advances in Extraction and Separation of Rare-Earth Metals Using Ionic Liquids. <i>Journal of Chemical Engineering of Japan</i> , 2011, 44, 679-685.	0.3	96
7	A solid-in-oil nanodispersion for transcutaneous protein delivery. <i>Journal of Controlled Release</i> , 2008, 131, 14-18.	4.8	94
8	Enzymic Esterification by Surfactant-Coated Lipase in Organic Media. <i>Biotechnology Progress</i> , 1994, 10, 263-268.	1.3	93
9	Synergistic effect and application of xylanases as accessory enzymes to enhance the hydrolysis of pretreated bagasse. <i>Enzyme and Microbial Technology</i> , 2015, 72, 16-24.	1.6	88
10	Application of cellulose acetate to the selective adsorption and recovery of Au(III). <i>Carbohydrate Polymers</i> , 2014, 111, 768-774.	5.1	77
11	Surfactant-Coated Lipase Suitable for the Enzymic Resolution of Menthol as a Biocatalyst in Organic Media. <i>Biotechnology Progress</i> , 1995, 11, 270-275.	1.3	73
12	Biocompatible Ionic Liquid Surfactant-Based Microemulsion as a Potential Carrier for Sparingly Soluble Drugs. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6263-6272.	3.2	66
13	Intermittent partition walls promote solvent extraction of metal ions in a microfluidic device. <i>Analyst</i> , 2004, 129, 1008.	1.7	64
14	Enzymatic interesterification of triglyceride with surfactant-coated lipase in organic media. <i>Biotechnology and Bioengineering</i> , 1995, 45, 27-32.	1.7	58
15	Selective Recovery of Dysprosium and Neodymium Ions by a Supported Liquid Membrane Based on Ionic Liquids. <i>Solvent Extraction Research and Development</i> , 2011, 18, 193-198.	0.5	55
16	Ionic Liquid-In-Oil Microemulsions Prepared with Biocompatible Choline Carboxylic Acids for Improving the Transdermal Delivery of a Sparingly Soluble Drug. <i>Pharmaceutics</i> , 2020, 12, 392.	2.0	55
17	Choline and amino acid based biocompatible ionic liquid mediated transdermal delivery of the sparingly soluble drug acyclovir. <i>International Journal of Pharmaceutics</i> , 2020, 582, 119335.	2.6	52
18	Enzymatic polymerization catalyzed by surfactant-coated lipases in organic media. <i>Biotechnology Letters</i> , 1997, 19, 307-310.	1.1	49

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19	Ionic liquid-mediated transcutaneous protein delivery with solid-in-oil nanodispersions. <i>MedChemComm</i> , 2015, 6, 2124-2128.	3.5	49
20	Selective extraction of scandium from yttrium and lanthanides with amic acid-type extractant containing alkylamide and glycine moieties. <i>RSC Advances</i> , 2014, 4, 50726-50730.	1.7	48
21	Highly efficient and low toxic skin penetrants composed of amino acid ionic liquids. <i>RSC Advances</i> , 2016, 6, 87753-87755.	1.7	46
22	Activation of lipase in ionic liquids by modification with comb-shaped poly(ethylene glycol). <i>Science and Technology of Advanced Materials</i> , 2006, 7, 692-698.	2.8	42
23	Direct Ethanol Production from Ionic Liquid-Pretreated Lignocellulosic Biomass by Cellulase-Displaying Yeasts. <i>Applied Biochemistry and Biotechnology</i> , 2017, 182, 229-237.	1.4	41
24	Transglutaminase-Mediated Protein Immobilization to Casein Nanolayers Created on a Plastic Surface. <i>Biomacromolecules</i> , 2005, 6, 35-38.	2.6	40
25	Solid-in-oil nanodispersions for transdermal drug delivery systems. <i>Biotechnology Journal</i> , 2016, 11, 1375-1385.	1.8	38
26	Biocompatible Ionic Liquid Enhances Transdermal Antigen Peptide Delivery and Preventive Vaccination Effect. <i>Molecular Pharmaceutics</i> , 2020, 17, 3845-3856.	2.3	37
27	Powerful peracetic acid-ionic liquid pretreatment process for the efficient chemical hydrolysis of lignocellulosic biomass. <i>Bioresource Technology</i> , 2016, 214, 487-495.	4.8	36
28	Synergistic Extraction of Rare-Earth Metals and Separation of Scandium Using 2-Thenoyltrifluoroacetone and Tri- <i>n</i> -octylphosphine Oxide in an Ionic Liquid System. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 656-662.	0.3	35
29	In vivo biocompatibility, pharmacokinetics, antitumor efficacy, and hypersensitivity evaluation of ionic liquid-mediated paclitaxel formulations. <i>International Journal of Pharmaceutics</i> , 2019, 565, 219-226.	2.6	35
30	Protein-Grafted Polymers Prepared Through a Site-Specific Conjugation by Microbial Transglutaminase for an Immunosorbent Assay. <i>Biomacromolecules</i> , 2017, 18, 422-430.	2.6	34
31	Genipin-stabilized caseinate-chitosan nanoparticles for enhanced stability and anti-cancer activity of curcumin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 308-315.	2.5	34
32	Catalytic and Structural Properties of Surfactant-Horseradish Peroxidase Complex in Organic Media. <i>Biotechnology Progress</i> , 2000, 16, 52-58.	1.3	33
33	Self-assembly of Ni-NTA-modified β -annulus peptides into artificial viral capsids and encapsulation of His-tagged proteins. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7869-7874.	1.5	32
34	Surfactant-horseradish peroxidase complex catalytically active in anhydrous benzene. <i>Biotechnology Letters</i> , 1997, 11, 375-378.	0.5	31
35	Effect of pretreatment methods on the synergism of cellulase and xylanase during the hydrolysis of bagasse. <i>Bioresource Technology</i> , 2015, 185, 158-164.	4.8	31
36	Primary Amine-Clustered DNA Aptamer for DNA-Protein Conjugation Catalyzed by Microbial Transglutaminase. <i>Bioconjugate Chemistry</i> , 2017, 28, 2954-2961.	1.8	31

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37	Enzymatic resolution of racemic ibuprofen by surfactant-coated lipases in organic media. <i>Biotechnology Letters</i> , 1996, 18, 839-844.	1.1	30
38	How Is Enzymatic Selectivity of Menthol Esterification Catalyzed by Surfactant-Coated Lipase Determined in Organic Media?. <i>Biotechnology Progress</i> , 1997, 13, 488-492.	1.3	29
39	Application of Novel Preparation Method for Surfactant-Protease Complexes Catalytically Active in Organic Media. <i>Biotechnology Progress</i> , 1997, 13, 551-556.	1.3	29
40	A Comparative Study of Ionic Liquids and a Conventional Organic Solvent on the Extraction of Rare-earth Ions with TOPO. <i>Solvent Extraction Research and Development</i> , 2013, 20, 225-232.	0.5	29
41	Co-amorphous formation of piroxicam-citric acid to generate supersaturation and improve skin permeation. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 158, 105667.	1.9	29
42	Separation of Precious Metals by Using Undiluted Ionic Liquids. <i>Solvent Extraction Research and Development</i> , 2014, 21, 89-94.	0.5	27
43	Sucrose laurate-enhanced transcutaneous immunization with a solid-in-oil nanodispersion. <i>MedChemComm</i> , 2014, 5, 20-24.	3.5	27
44	New insight into transdermal drug delivery with supersaturated formulation based on co-amorphous system. <i>International Journal of Pharmaceutics</i> , 2019, 569, 118582.	2.6	27
45	Polymeric SpyCatcher Scaffold Enables Bioconjugation in a Ratio-Controllable Manner. <i>Biotechnology Journal</i> , 2017, 12, 1700195.	1.8	26
46	Fluorescent substrates for covalent protein labeling catalyzed by microbial transglutaminase. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3407.	1.5	25
47	Extraction and Separation of Rare Earth Metal Ions with DODGAA in Ionic liquids. <i>Solvent Extraction Research and Development</i> , 2012, 19, 69-76.	0.5	24
48	One Step Effective Separation of Platinum and Palladium in an Acidic Chloride Solution by Using Undiluted Ionic Liquids. <i>Solvent Extraction Research and Development</i> , 2014, 21, 129-135.	0.5	24
49	Transdermal delivery of insulin using a solid-in-oil nanodispersion enhanced by arginine-rich peptides. <i>MedChemComm</i> , 2012, 3, 1496.	3.5	23
50	Quaternary Ammonium Bacterial Cellulose for Adsorption of Proteins. <i>Solvent Extraction Research and Development</i> , 2010, 17, 73-81.	0.5	22
51	Enantioselective recognition mechanism of secondary alcohol by surfactant-coated lipases in nonaqueous media. , 1999, 65, 227-232.		21
52	Enzymatically prepared redox-responsive hydrogels as potent matrices for hepatocellular carcinoma cell spheroid formation. <i>Biotechnology Journal</i> , 2016, 11, 1452-1460.	1.8	21
53	Lipid-Based Ionic-Liquid-Mediated Nanodispersions as Biocompatible Carriers for the Enhanced Transdermal Delivery of a Peptide Drug. <i>ACS Applied Bio Materials</i> , 2021, 4, 6256-6267.	2.3	21
54	Factors affecting protein release behavior from surfactant-protein complexes under physiological conditions. <i>International Journal of Pharmaceutics</i> , 2007, 338, 174-179.	2.6	19

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55	Extraction and Stripping Behavior of Platinum Group Metals Using an Amic-Acid-Type Extractant. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 521-526.	0.3	19
56	Self-Assembled Reduced Albumin and Glycol Chitosan Nanoparticles for Paclitaxel Delivery. <i>Langmuir</i> , 2019, 35, 2610-2618.	1.6	18
57	Polymerization of Horseradish Peroxidase by a Laccase-Catalyzed Tyrosine Coupling Reaction. <i>Biotechnology Journal</i> , 2019, 14, e1800531.	1.8	18
58	Transcutaneous Peptide Immunotherapy of Japanese Cedar Pollinosis Using Solid-in-Oil Nanodispersion Technology. <i>AAPS PharmSciTech</i> , 2015, 16, 1418-1424.	1.5	17
59	Selective Extraction of Scandium from Transition Metals by Synergistic Extraction with 2-Thenoyltrifluoroacetone and Tri-n-octylphosphine Oxide. <i>Solvent Extraction Research and Development</i> , 2016, 23, 137-143.	0.5	17
60	Transcutaneous immunization against cancer using solid-in-oil nanodispersions. <i>MedChemComm</i> , 2015, 6, 1387-1392.	3.5	16
61	Enzymatic Cell-Surface Decoration with Proteins using Amphiphilic Lipid-Fused Peptide Substrates. <i>Chemistry - A European Journal</i> , 2019, 25, 7315-7321.	1.7	16
62	Functional immobilization of recombinant alkaline phosphatases bearing a glutamyl donor substrate peptide of microbial transglutaminase. <i>Journal of Bioscience and Bioengineering</i> , 2007, 104, 195-199.	1.1	15
63	Ionic Liquid-in-Oil Microemulsions as Potential Carriers for the Transdermal Delivery of Methotrexate. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 794-796.	0.3	15
64	Enantioselective esterification of glycidol by surfactant-lipase complexes in organic media. <i>Biotechnology Letters</i> , 1997, 19, 541-543.	1.1	14
65	Enzymatic preparation of streptavidin-immobilized hydrogel using a phenolated linear poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	14
66	Laccase-catalyzed bioconjugation of tyrosine-tagged functional proteins. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 559-566.	1.1	14
67	Stimuli-responsive nanoparticles composed of naturally occurring amphiphilic proteins. <i>Chemical Communications</i> , 2009, , 5287.	2.2	13
68	Enzyme-mediated preparation of hydrogels composed of poly(ethylene glycol) and gelatin as cell culture platforms. <i>RSC Advances</i> , 2015, 5, 3070-3073.	1.7	13
69	Liquid Marbles as an Easy-Handle Compartment for Cell-Free Synthesis and In Situ Immobilization of Recombinant Proteins. <i>Biotechnology Journal</i> , 2018, 13, 1800085.	1.8	12
70	Recombinant production of active microbial transglutaminase in <i>E. coli</i> by using self-cleavable zymogen with mutated propeptide. <i>Protein Expression and Purification</i> , 2020, 176, 105730.	0.6	12
71	Surfactant-histidine-heme ternary complex as a simple artificial heme enzyme in organic media. , 1999, 64, 502-506.		11
72	Mechanistic investigation of transcutaneous protein delivery using solid-in-oil nanodispersion: A case study with phycocyanin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 44-50.	2.0	11

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73	Enzymatically Prepared Dual Functionalized Hydrogels with Gelatin and Heparin To Facilitate Cellular Attachment and Proliferation. <i>ACS Applied Bio Materials</i> , 2019, 2, 2600-2609.	2.3	11
74	Poly(ethylene glycol)-based biofunctional hydrogels mediated by peroxidase-catalyzed cross-linking reactions. <i>Polymer Journal</i> , 2020, 52, 899-911.	1.3	11
75	Transdermal Delivery of Antigenic Protein Using Ionic Liquid-Based Nanocarriers for Tumor Immunotherapy. <i>ACS Applied Bio Materials</i> , 2022, 5, 2586-2597.	2.3	11
76	Transcutaneous immunotherapy of pollinosis using solid-in-oil nanodispersions loaded with T cell epitope peptides. <i>International Journal of Pharmaceutics</i> , 2017, 529, 401-409.	2.6	10
77	Construction of higher-order cellular microstructures by a self-wrapping co-culture strategy using a redox-responsive hydrogel. <i>Scientific Reports</i> , 2020, 10, 6710.	1.6	10
78	Mutual Separation of Indium, Gallium, and Zinc with the Amic Acid-type Extractant D2EHAG Containing Glycine and Amide Moieties. <i>Solvent Extraction Research and Development</i> , 2016, 23, 9-18.	0.5	9
79	Expression and purification of biologically active human granulocyte-macrophage colony stimulating factor (hGM-CSF) using silkworm-baculovirus expression vector system. <i>Protein Expression and Purification</i> , 2019, 159, 69-74.	0.6	9
80	A Novel Binary Supercooled Liquid Formulation for Transdermal Drug Delivery. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 393-398.	0.6	9
81	Dual-Functionalizable Streptavidin-SpyCatcher-Fused Protein-Polymer Hydrogels as Scaffolds for Cell Culture. <i>ACS Applied Bio Materials</i> , 2020, 3, 7734-7742.	2.3	9
82	Linear Polymerization of Protein by Sterically Controlled Enzymatic Cross-Linking with a Tyrosine-Containing Peptide Loop. <i>ACS Omega</i> , 2020, 5, 5160-5169.	1.6	9
83	Orthogonal Enzymatic Conjugation Reactions Create Chitin Binding Domain Grafted Chitinase Polymers with Enhanced Antifungal Activity. <i>Bioconjugate Chemistry</i> , 2021, 32, 1688-1698.	1.8	9
84	Conformational preference of a porphyrin rotor in confined environments. <i>RSC Advances</i> , 2014, 4, 705-708.	1.7	8
85	Enzymatic conjugation of multiple proteins on a DNA aptamer in a tail-specific manner. <i>Biotechnology Journal</i> , 2016, 11, 814-823.	1.8	8
86	A nano-sized gel-in-oil suspension for transcutaneous protein delivery. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118495.	2.6	8
87	Protein-Functionalized Gold Nanoparticles for Antibody Detection Using the Darkfield Microscopic Observation of Nanoparticle Aggregation. <i>Analytical Sciences</i> , 2021, 37, 507-511.	0.8	8
88	pH-Responsive Self-Assembly of Designer Aromatic Peptide Amphiphiles and Enzymatic Post-Modification of Assembled Structures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3459.	1.8	8
89	Enhancement of the Antifungal Activity of Chitinase by Palmitoylation and the Synergy of Palmitoylated Chitinase with Amphotericin B. <i>ACS Infectious Diseases</i> , 2022, 8, 1051-1061.	1.8	8
90	Extraction of Rare-Earth Ions with an 8-Hydroxyquinoline Derivative in an Ionic Liquid. <i>Solvent Extraction Research and Development</i> , 2013, 20, 123-129.	0.5	7

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91	Redox-responsive functionalized hydrogel marble for the generation of cellular spheroids. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 416-423.	1.1	7
92	New Fluorescent Substrates of Microbial Transglutaminase and Its Application to Peptide Tag-Directed Covalent Protein Labeling. <i>Methods in Molecular Biology</i> , 2011, 751, 81-94.	0.4	7
93	Transcutaneous Delivery of Immunomodulating Pollen Extract-Galactomannan Conjugate by Solid-in-Oil Nanodispersions for Pollinosis Immunotherapy. <i>Pharmaceutics</i> , 2019, 11, 563.	2.0	6
94	Extending the Half-Life of a Protein <i>in Vivo</i> by Enzymatic Labeling with Amphiphilic Lipopeptides. <i>Bioconjugate Chemistry</i> , 2021, 32, 655-660.	1.8	6
95	Recent advances in research on biointerfaces: From cell surfaces to artificial interfaces. <i>Journal of Bioscience and Bioengineering</i> , 2022, , .	1.1	6
96	Hydrophobic immiscibility controls self-sorting or co-assembly of peptide amphiphiles. <i>Chemical Communications</i> , 2022, 58, 585-588.	2.2	6
97	The self-assembly and secondary structure of peptide amphiphiles determine the membrane permeation activity. <i>RSC Advances</i> , 2014, 4, 30654-30657.	1.7	5
98	A novel surface-coated nanocarrier for efficient encapsulation and delivery of camptothecin to cells. <i>MedChemComm</i> , 2014, 5, 1515-1519.	3.5	5
99	A Single Fluorophore-labeled Aptamer Sensor for the Detection of Interferon Gamma. <i>Chemistry Letters</i> , 2015, 44, 1670-1672.	0.7	5
100	Selective Separation of Precious Metals using Biomass Materials. <i>Kagaku Kogaku Ronbunshu</i> , 2010, 36, 255-258.	0.1	5
101	Design of Swollen Lipidic Cubic Phase to Increase Transcutaneous Penetration of Biomacromolecules. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54753-54761.	4.0	5
102	A transdermal Delivery System of an Ascorbic Acid Derivative Utilizing Solid-in-Oil Technique. <i>Membrane</i> , 2009, 34, 227-232.	0.0	4
103	Heme precursor injection is effective for <i>Arthromyces ramosus</i> peroxidase fusion protein production by a silkworm expression system. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 384-386.	1.1	4
104	FRET-based detection of isozyme-specific activities of transglutaminases. <i>Amino Acids</i> , 2017, 49, 615-623.	1.2	4
105	Formation and Characterization of Caseinate-Chitosan Nanocomplexes for Encapsulation of Curcumin. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 445-453.	0.3	4
106	Solid-in-oil nanodispersions for intranasal vaccination: Enhancement of mucosal and systemic immune responses. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118777.	2.6	4
107	A Solid-in-Oil Nanodispersion System for Transcutaneous Immunotherapy of Cow's Milk Allergies. <i>Pharmaceutics</i> , 2020, 12, 205.	2.0	4
108	Ring-opening Polymerization of Lactones Catalyzed by Surfactant-Coated Lipases in Organic Solvents.. <i>Journal of Chemical Engineering of Japan</i> , 2003, 36, 307-312.	0.3	4

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109	Leakage Mechanism of Irinotecan from Water-in-Oil-in-Water (W/O/W) Multiple Emulsions.. Kagaku Kogaku Ronbunshu, 2003, 29, 294-298.	0.1	4
110	A solid-in-oil-in-water emulsion: An adjuvant-based immune-carrier enhances vaccine effect. Biomaterials, 2022, 282, 121385.	5.7	4
111	Functional horseradish peroxidase~streptavidin chimeric proteins prepared using a silkworm-baculovirus expression system for diagnostic purposes. Journal of Biotechnology, 2019, 297, 28-31.	1.9	3
112	Active Human and Murine Tumor Necrosis Factor $\hat{\pm}$ Cytokines Produced from Silkworm Baculovirus Expression System. Insects, 2021, 12, 517.	1.0	3
113	Enzymatic self-sacrificial display of an active protein on gold nanoparticles. RSC Advances, 2014, 4, 5995.	1.7	2
114	Salt-Switchable Artificial Cellulase Regulated by a DNA Aptamer. Biomacromolecules, 2016, 17, 3356-3362.	2.6	2
115	Expression and Activation of Horseradish Peroxidase-Protein A/G Fusion Protein in Silkworm Larvae for Diagnostic Purposes. Biotechnology Journal, 2018, 13, 1700624.	1.8	2
116	$\hat{\pm}$ -Arabinofuranosidase as an Orthogonal Enzyme for Human Cells. Chemistry Letters, 2021, 50, 1493-1495.	0.7	2
117	Optimization of a Fusion Protein Expression System using Human Cell Lines to Create a Practical Immunoassay Reagent. Kagaku Kogaku Ronbunshu, 2015, 41, 38-42.	0.1	2
118	Separation of Gold(III) in Acidic Chloride Solution Using Porous Polymeric Ionic Liquid Gel. Journal of Chemical Engineering of Japan, 2015, 48, 197-201.	0.3	1
119	Solid-in-Oil Nanodispersions for Transcutaneous Immunotherapy of Japanese Cedar Pollinosis. Pharmaceutics, 2020, 12, 240.	2.0	1
120	Strategies for Making Multimeric and Polymeric Bifunctional Protein Conjugates and Their Applications as Bioanalytical Tools. Analytical Sciences, 2021, 37, 425-437.	0.8	1
121	Efficient Refolding of Inclusion Bodies by Reversed Micelles. Kagaku Kogaku Ronbunshu, 2004, 30, 468-473.	0.1	0
122	Solid-phase Peptide Synthesis in a Microfluidic Device. Kagaku Kogaku Ronbunshu, 2004, 30, 180-182.	0.1	0
123	Development of a Peroxidase-Fused Protein Reagent by <i>Brevibacillus choshinensis</i> Heterologous Expression System. Kagaku Kogaku Ronbunshu, 2015, 41, 157-161.	0.1	0
124	Depolimerisasi Kitosan dari Cangkang Udang dengan Enzim Papain dan Iradiasi Sinar Ultraviolet. Jurnal Pengolahan Hasil Perikanan Indonesia, 2022, 25, 118-131.	0.1	0