

Sang Jun Sim

List of Publications by Year in descending order

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257
papers

11,382
citations

20759

60
h-index

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91
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266
all docs

266
docs citations

266
times ranked

12433
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecotoxicity of Silver Nanoparticles on the Soil Nematode <i>Caenorhabditis elegans</i> Using Functional Ecotoxicogenomics. <i>Environmental Science & Technology</i> , 2009, 43, 3933-3940.	4.6	396
2	Enzymatic pretreatment of <i>Chlamydomonas reinhardtii</i> biomass for ethanol production. <i>Bioresource Technology</i> , 2010, 101, 5330-5336.	4.8	339
3	Pretreatment of rice straw with ammonia and ionic liquid for lignocellulose conversion to fermentable sugars. <i>Bioresource Technology</i> , 2010, 101, 7432-7438.	4.8	255
4	DNA-free two-gene knockout in <i>Chlamydomonas reinhardtii</i> via CRISPR-Cas9 ribonucleoproteins. <i>Scientific Reports</i> , 2016, 6, 30620.	1.6	253
5	PHA synthase activity controls the molecular weight and polydispersity of polyhydroxybutyrate in vivo. <i>Nature Biotechnology</i> , 1997, 15, 63-67.	9.4	196
6	Thermostable cellulases: Current status and perspectives. <i>Bioresource Technology</i> , 2019, 279, 385-392.	4.8	188
7	Hydrothermal Acid Pretreatment of <i>Chlamydomonas reinhardtii</i> Biomass for Ethanol Production. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 161-166.	0.9	182
8	Hydrocarbon production from secondarily treated piggery wastewater by the green alga <i>Botryococcus braunii</i> . <i>Journal of Applied Phycology</i> , 2003, 15, 185-191.	1.5	177
9	Hydrogen production from <i>Chlamydomonas reinhardtii</i> biomass using a two-step conversion process: Anaerobic conversion and photosynthetic fermentation. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 812-816.	3.8	169
10	Ultrasensitive carbon nanotube-based biosensors using antibody-binding fragments. <i>Analytical Biochemistry</i> , 2008, 381, 193-198.	1.1	141
11	Comparison of heterotrophic and photoautotrophic induction on astaxanthin production by <i>Haematococcus pluvialis</i> . <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 237-241.	1.7	139
12	Quantitative and Specific Detection of Exosomal miRNAs for Accurate Diagnosis of Breast Cancer Using a Surface-Enhanced Raman Scattering Sensor Based on Plasmonic Head-Flocked Gold Nanopillars. <i>Small</i> , 2019, 15, e1804968.	5.2	137
13	A strategy for sensitivity and specificity enhancements in prostate specific antigen- \pm 1-antichymotrypsin detection based on surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2006, 21, 2106-2113.	5.3	136
14	Effect of light conditions on mixotrophic cultivation of green microalgae. <i>Bioresource Technology</i> , 2019, 282, 245-253.	4.8	133
15	Surface-Initiated, Atom Transfer Radical Polymerization of Oligo(ethylene glycol) Methyl Ether Methacrylate and Subsequent Click Chemistry for Bioconjugation. <i>Biomacromolecules</i> , 2007, 8, 744-749.	2.6	132
16	Enhancement of sensitivity and specificity by surface modification of carbon nanotubes in diagnosis of prostate cancer based on carbon nanotube field effect transistors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3372-3378.	5.3	130
17	Good things come in small packages: Overcoming challenges to harness extracellular vesicles for therapeutic delivery. <i>Journal of Controlled Release</i> , 2016, 241, 174-185.	4.8	129
18	Emerging prospects of mixotrophic microalgae: Way forward to sustainable bioprocess for environmental remediation and cost-effective biofuels. <i>Bioresource Technology</i> , 2020, 300, 122741.	4.8	125

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19	Application of citrate-stabilized gold-coated ferric oxide composite nanoparticles for biological separations. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 2049-2055.	1.0	120
20	Characterization of a self-assembled monolayer of thiol on a gold surface and the fabrication of a biosensor chip based on surface plasmon resonance for detecting anti-GAD antibody. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1422-1427.	5.3	116
21	Target-specific delivery of siRNA by stabilized calcium phosphate nanoparticles using dopa-hyaluronic acid conjugate. <i>Journal of Controlled Release</i> , 2014, 192, 122-130.	4.8	115
22	Nanoplasmonic biosensor: Detection and amplification of dual bio-signatures of circulating tumor DNA. <i>Biosensors and Bioelectronics</i> , 2015, 67, 443-449.	5.3	113
23	The hazardous threat of Bisphenol A: Toxicity, detection and remediation. <i>Journal of Hazardous Materials</i> , 2022, 423, 127097.	6.5	108
24	Targeted knockout of phospholipase A2 to increase lipid productivity in <i>Chlamydomonas reinhardtii</i> for biodiesel production. <i>Bioresource Technology</i> , 2019, 271, 368-374.	4.8	102
25	A shape-code nanoplasmonic biosensor for multiplex detection of Alzheimer's disease biomarkers. <i>Biosensors and Bioelectronics</i> , 2018, 101, 96-102.	5.3	98
26	Direct extraction of astaxanthin from <i>Haematococcus</i> culture using vegetable oils. <i>Biotechnology Letters</i> , 2008, 30, 441-444.	1.1	97
27	Optical fiber SPR biosensor with sandwich assay for the detection of prostate specific antigen. <i>Optics Communications</i> , 2009, 282, 2827-2830.	1.0	97
28	Signal enhancement of surface plasmon resonance immunoassay using enzyme precipitation-functionalized gold nanoparticles: A femto molar level measurement of anti-glutamic acid decarboxylase antibody. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1874-1880.	5.3	95
29	Multilateral approach on enhancing economic viability of lipid production from microalgae: A review. <i>Bioresource Technology</i> , 2018, 258, 335-344.	4.8	95
30	Sensitive DNA biosensor based on a long-period grating formed on the side-polished fiber surface. <i>Optics Express</i> , 2009, 17, 3855.	1.7	93
31	Enhanced autotrophic astaxanthin production from <i>Haematococcus pluvialis</i> under high temperature via heat stress-driven Haber-Weiss reaction. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5203-5215.	1.7	93
32	Production of hydrogen from marine macro-algae biomass using anaerobic sewage sludge microflora. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 307-315.	1.4	92
33	Photoautotrophic production of macular pigment in a <i>Chlamydomonas reinhardtii</i> strain generated by using DNA-free CRISPR-Cas9 RNP-mediated mutagenesis. <i>Biotechnology and Bioengineering</i> , 2018, 115, 719-728.	1.7	92
34	Fermentative hydrogen production by the newly isolated <i>Enterobacter asburiae</i> SNU-1. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 192-199.	3.8	91
35	Design and applications of photobioreactors- a review. <i>Bioresource Technology</i> , 2022, 349, 126858.	4.8	90
36	Astaxanthin biosynthesis from simultaneous N and P uptake by the green alga <i>Haematococcus pluvialis</i> in primary-treated wastewater. <i>Biochemical Engineering Journal</i> , 2006, 31, 234-238.	1.8	88

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37	Enhancement of fermentative hydrogen production from green algal biomass of <i>Thermotoga neapolitana</i> by various pretreatment methods. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 13035-13040.	3.8	88
38	High-yield biohydrogen production from biodiesel manufacturing waste by <i>Thermotoga neapolitana</i> . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5836-5842.	3.8	87
39	Enhanced hydrogen production by controlling light intensity in sulfur-deprived <i>Chlamydomonas reinhardtii</i> culture. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1585-1590.	3.8	85
40	Optimization of hydrogen production by hyperthermophilic eubacteria, <i>Thermotoga maritima</i> and <i>Thermotoga neapolitana</i> in batch fermentation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1483-1488.	3.8	85
41	Hydrogen production of the hyperthermophilic eubacterium, <i>Thermotoga neapolitana</i> under N ₂ sparging condition. <i>Bioresource Technology</i> , 2010, 101, S38-S41.	4.8	83
42	Rational aspect ratio and suitable antibody coverage of gold nanorod for ultra-sensitive detection of a cancer biomarker. <i>Lab on A Chip</i> , 2012, 12, 1102.	3.1	83
43	A nanoplasmonic biosensor for label-free multiplex detection of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 74, 341-346.	5.3	81
44	Development of large-scale and economic pH control system for outdoor cultivation of microalgae <i>Haematococcus pluvialis</i> using industrial flue gas. <i>Bioresource Technology</i> , 2017, 244, 1235-1244.	4.8	81
45	High-efficiency cell disruption and astaxanthin recovery from <i>Haematococcus pluvialis</i> cyst cells using room-temperature imidazolium-based ionic liquid/water mixtures. <i>Bioresource Technology</i> , 2019, 274, 120-126.	4.8	76
46	Thermophilic hydrogen fermentation from Korean rice straw by <i>Thermotoga neapolitana</i> . <i>International Journal of Hydrogen Energy</i> , 2010, 35, 13392-13398.	3.8	75
47	Photosynthetic conversion of CO ₂ to farnesyl diphosphate-derived phytochemicals (amorpha-4,11-diene and squalene) by engineered cyanobacteria. <i>Biotechnology for Biofuels</i> , 2016, 9, 202.	6.2	75
48	Performance and potential appraisal of various microalgae as direct combustion fuel. <i>Bioresource Technology</i> , 2019, 273, 341-349.	4.8	75
49	A new method for non-labeling attomolar detection of diseases based on an individual gold nanorod immunosensor. <i>Lab on A Chip</i> , 2011, 11, 2591.	3.1	71
50	Complementary limiting factors of astaxanthin synthesis during photoautotrophic induction of <i>Haematococcus pluvialis</i> : C/N ratio and light intensity. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 987-994.	1.7	70
51	Enhanced astaxanthin production from microalga, <i>Haematococcus pluvialis</i> by two-stage perfusion culture with stepwise light irradiation. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 2039-2047.	1.7	68
52	A sustainable mixotrophic microalgae cultivation from dairy wastes for carbon credit, bioremediation and lucrative biofuels. <i>Bioresource Technology</i> , 2020, 313, 123681.	4.8	67
53	Microalgae Bioenergy with Carbon Capture and Storage (BECCS): An emerging sustainable bioprocess for reduced CO ₂ emission and biofuel production. <i>Bioresource Technology Reports</i> , 2019, 7, 100270.	1.5	66
54	A Direct, Multiplex Biosensor Platform for Pathogen Detection Based on Cross-linked Polydiacetylene (PDA) Supramolecules. <i>Advanced Functional Materials</i> , 2009, 19, 3703-3710.	7.8	65

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55	Synergistic effect of multiple stress conditions for improving microalgal lipid production. <i>Algal Research</i> , 2016, 19, 215-224.	2.4	65
56	High cell density culture of <i>Anabaena variabilis</i> using repeated injections of carbon dioxide for the production of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1265-1270.	3.8	64
57	Production and secretion of indole alkaloids in hairy root cultures of <i>Catharanthus roseus</i> : Effects of in situ adsorption, fungal elicitation and permeabilization. <i>Journal of Bioscience and Bioengineering</i> , 1994, 78, 229-234.	0.9	63
58	Aptamer biosensor for label-free detection of human immunoglobulin E based on surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 471-475.	4.0	63
59	Engineering of a modular and synthetic phosphoketolase pathway for photosynthetic production of acetone from CO_2 in <i>Synechococcus elongatus</i> PCC 7942 under light and aerobic condition. <i>Plant Biotechnology Journal</i> , 2016, 14, 1768-1776.	4.1	62
60	Enhanced performance of a surface plasmon resonance immunosensor for detecting Ab ϵ -GAD antibody based on the modified self-assembled monolayers. <i>Biosensors and Bioelectronics</i> , 2005, 21, 378-383.	5.3	61
61	Controlled wavelength reduction in surface wrinkling of poly(dimethylsiloxane). <i>Soft Matter</i> , 2010, 6, 677-684.	1.2	59
62	Multiplex diagnosis of viral infectious diseases (AIDS, hepatitis C, and hepatitis A) based on point of care lateral flow assay using engineered proteinticles. <i>Biosensors and Bioelectronics</i> , 2015, 69, 213-225.	5.3	59
63	Recent advancements in mixotrophic bioprocessing for production of high value microalgal products. <i>Bioresource Technology</i> , 2021, 320, 124421.	4.8	59
64	Acidic cultivation of <i>Haematococcus pluvialis</i> for improved astaxanthin production in the presence of a lethal fungus. <i>Bioresource Technology</i> , 2019, 278, 138-144.	4.8	58
65	Microfluidic high-throughput selection of microalgal strains with superior photosynthetic productivity using competitive phototaxis. <i>Scientific Reports</i> , 2016, 6, 21155.	1.6	57
66	Evaluation of conversion efficiency of light to hydrogen energy by <i>Anabaena variabilis</i> . <i>International Journal of Hydrogen Energy</i> , 2006, 31, 721-727.	3.8	55
67	Resonant Rayleigh light scattering of single Au nanoparticles with different sizes and shapes. <i>Nanoscale</i> , 2014, 6, 2307.	2.8	55
68	Label-free detection of ApoE4-mediated β -amyloid aggregation on single nanoparticle uncovering Alzheimer's disease. <i>Biosensors and Bioelectronics</i> , 2015, 72, 197-204.	5.3	55
69	Split mixotrophy: A novel cultivation strategy to enhance the mixotrophic biomass and lipid yields of <i>Chlorella protothecoides</i> . <i>Bioresource Technology</i> , 2019, 291, 121820.	4.8	55
70	A label-free, ultra-highly sensitive and multiplexed SERS nanoplasmonic biosensor for miRNA detection using a head-flocked gold nanopillar. <i>Analyst</i> , 2019, 144, 1768-1776.	1.7	55
71	Low-blinking SERS substrate for switchable detection of kanamycin. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 765-773.	4.0	55
72	Hydrogen production by the hyperthermophilic eubacterium, <i>Thermotoga neapolitana</i> , using cellulose pretreated by ionic liquid. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5161-5168.	3.8	54

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73	Development of an X-Shape airlift photobioreactor for increasing algal biomass and biodiesel production. <i>Bioresource Technology</i> , 2017, 239, 211-218.	4.8	53
74	Improvement of Squalene Production from CO ₂ in <i>Synechococcus elongatus</i> PCC 7942 by Metabolic Engineering and Scalable Production in a Photobioreactor. <i>ACS Synthetic Biology</i> , 2017, 6, 1289-1295.	1.9	53
75	Development of SyneBrick Vectors As a Synthetic Biology Platform for Gene Expression in <i>Synechococcus elongatus</i> PCC 7942. <i>Frontiers in Plant Science</i> , 2017, 8, 293.	1.7	53
76	Gold nanocrystals with DNA-directed morphologies. <i>Nature Communications</i> , 2016, 7, 12873.	5.8	52
77	Effect of red cyst cell inoculation and iron(II) supplementation on autotrophic astaxanthin production by <i>Haematococcus pluvialis</i> under outdoor summer conditions. <i>Journal of Biotechnology</i> , 2016, 218, 25-33.	1.9	52
78	Resonant Rayleigh light scattering response of individual Au nanoparticles to antigen-antibody interaction. <i>Lab on A Chip</i> , 2009, 9, 1836.	3.1	50
79	Single gold-bridged nanoprobe for identification of single point DNA mutations. <i>Nature Communications</i> , 2019, 10, 836.	5.8	50
80	Direct Conversion of CO ₂ to Î±-Farnesene Using Metabolically Engineered <i>Synechococcus elongatus</i> PCC 7942. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10424-10428.	2.4	49
81	Mass cultivation and harvesting of microalgal biomass: Current trends and future perspectives. <i>Bioresource Technology</i> , 2022, 344, 126406.	4.8	48
82	Increased shikonin production by hairy roots of <i>Lithospermum erythrorhizon</i> in two phase bubble column reactor. <i>Biotechnology Letters</i> , 1993, 15, 145-150.	1.1	47
83	The Development of a Generic Bioanalytical Matrix Using Polydiacetylenes. <i>Advanced Functional Materials</i> , 2007, 17, 2038-2044.	7.8	47
84	A Nanoplasmonic Biosensor for Ultrasensitive Detection of Alzheimer's Disease Biomarker Using a Chaotropic Agent. <i>ACS Sensors</i> , 2019, 4, 595-602.	4.0	47
85	Homogenous growth of gold nanocrystals for quantification of PSA protein biomarker. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1292-1297.	5.3	46
86	Eco-toxicity of commercial silver nanopowders to bacterial and yeast strains. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 490-495.	1.4	45
87	Fabrication of plasmon length-based surface enhanced Raman scattering for multiplex detection on microfluidic device. <i>Biosensors and Bioelectronics</i> , 2015, 70, 358-365.	5.3	45
88	Single gold nanoplasmonic sensor for clinical cancer diagnosis based on specific interaction between nucleic acids and protein. <i>Biosensors and Bioelectronics</i> , 2015, 67, 59-65.	5.3	44
89	A multisized piezoelectric microcantilever biosensor array for the quantitative analysis of mass and surface stress. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	43
90	Mixotrophic biorefinery: A promising algal platform for sustainable biofuels and high value coproducts. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111669.	8.2	42

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91	Fed-batch culture of astaxanthin-rich <i>Haematococcus pluvialis</i> by exponential nutrient feeding and stepwise light supplementation. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 133-139.	1.7	41
92	Microalgal-Based Carbon Sequestration by Converting LNG-Fired Waste CO ₂ into Red Gold Astaxanthin: The Potential Applicability. <i>Energies</i> , 2019, 12, 1718.	1.6	41
93	Performance enhancement of real-time detection of protozoan parasite, <i>Cryptosporidium oocyst</i> by a modified surface plasmon resonance (SPR) biosensor. <i>Enzyme and Microbial Technology</i> , 2006, 39, 387-390.	1.6	40
94	Succinate production from CO ₂ -grown microalgal biomass as carbon source using engineered <i>Corynebacterium glutamicum</i> through consolidated bioprocessing. <i>Scientific Reports</i> , 2014, 4, 5819.	1.6	40
95	Rapid selection of astaxanthin-hyperproducing <i>Haematococcus</i> mutant via azide-based colorimetric assay combined with oil-based astaxanthin extraction. <i>Bioresource Technology</i> , 2018, 267, 175-181.	4.8	39
96	Sustainable production of polyhydroxybutyrate from autotrophs using CO ₂ as feedstock: Challenges and opportunities. <i>Bioresource Technology</i> , 2021, 341, 125751.	4.8	39
97	Improvement in modular scalability of polymeric thin-film photobioreactor for autotrophic culturing of <i>Haematococcus pluvialis</i> using industrial flue gas. <i>Bioresource Technology</i> , 2018, 249, 519-526.	4.8	38
98	Harnessing fruit waste for poly-3-hydroxybutyrate production: A review. <i>Bioresource Technology</i> , 2021, 326, 124734.	4.8	38
99	Optimal design of scalable photo-bioreactor for phototropic culturing of <i>Haematococcus pluvialis</i> . <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 309-315.	1.7	37
100	Development of SERS substrate using phage-based magnetic template for triplex assay in sepsis diagnosis. <i>Biosensors and Bioelectronics</i> , 2016, 85, 522-528.	5.3	37
101	Photosynthetic CO ₂ Conversion to Fatty Acid Ethyl Esters (FAEEs) Using Engineered Cyanobacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 1087-1092.	2.4	36
102	Improved CO ₂ -derived polyhydroxybutyrate (PHB) production by engineering fast-growing cyanobacterium <i>Synechococcus elongatus</i> UTEX 2973 for potential utilization of flue gas. <i>Bioresource Technology</i> , 2021, 327, 124789.	4.8	36
103	Three-dimensional hierarchical plasmonic nano-architecture based label-free surface-enhanced Raman spectroscopy detection of urinary exosomal miRNA for clinical diagnosis of prostate cancer. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114116.	5.3	36
104	Heterologous production of epothilones B and D in <i>Streptomyces venezuelae</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 109-117.	1.7	35
105	Enhancing lipid productivity by modulating lipid catabolism using the CRISPR-Cas9 system in <i>Chlamydomonas</i> . <i>Journal of Applied Phycology</i> , 2020, 32, 2829-2840.	1.5	35
106	Rheology and gelation of water-insoluble dextran from <i>Leuconostoc mesenteroides</i> NRRL B-523. <i>Carbohydrate Polymers</i> , 2003, 53, 459-468.	5.1	34
107	Seedless synthesis of octahedral gold nanoparticles in condensed surfactant phase. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 152-157.	5.0	34
108	Augmented CO ₂ tolerance by expressing a single H ⁺ -pump enables microalgal valorization of industrial flue gas. <i>Nature Communications</i> , 2021, 12, 6049.	5.8	34

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109	A Novel Bioassay Platform Using Ferritin-Based Nanoprobe Hydrogel. <i>Advanced Materials</i> , 2012, 24, 4739-4744.	11.1	33
110	Development of thin-film photo-bioreactor and its application to outdoor culture of microalgae. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 729-736.	1.7	33
111	Magnetophoretic sorting of microdroplets with different microalgal cell densities for rapid isolation of fast growing strains. <i>Scientific Reports</i> , 2017, 7, 10390.	1.6	33
112	Detection of multiplex exosomal miRNAs for clinically accurate diagnosis of Alzheimer's disease using label-free plasmonic biosensor based on DNA-Assembled advanced plasmonic architecture. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113864.	5.3	33
113	Astaxanthin production by a highly photosensitive <i>Haematococcus</i> mutant. <i>Process Biochemistry</i> , 2012, 47, 1972-1979.	1.8	32
114	Comprehensive approach to improving life-cycle CO2 reduction efficiency of microalgal biorefineries: A review. <i>Bioresource Technology</i> , 2019, 291, 121879.	4.8	31
115	Engineering interventions in enzyme production: Lab to industrial scale. <i>Bioresource Technology</i> , 2021, 326, 124771.	4.8	31
116	Selective Extraction of Free Astaxanthin from <i>Haematococcus</i> Culture Using a Tandem Organic Solvent System. <i>Biotechnology Progress</i> , 2007, 23, 866-871.	1.3	31
117	Production of Hydrogen from Glucose as a Biomass Simulant: An Integrated Biological and Thermochemical Approach. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3645-3651.	1.8	30
118	Detection of pathogen based on the catalytic growth of gold nanocrystals. <i>Water Research</i> , 2009, 43, 1425-1431.	5.3	30
119	Microdroplet photobioreactor for the photoautotrophic culture of microalgal cells. <i>Analyst</i> , 2016, 141, 989-998.	1.7	30
120	One-Pot, Simultaneous Cell Wall Disruption and Complete Extraction of Astaxanthin from <i>Haematococcus pluvialis</i> at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13898-13910.	3.2	30
121	Repeated production of hydrogen by sulfate re-addition in sulfur deprived culture of <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2010, 35, 13387-13391.	3.8	29
122	Integrated Microfluidic Platform for Multiple Processes from Microalgal Culture to Lipid Extraction. <i>Analytical Chemistry</i> , 2014, 86, 8585-8592.	3.2	29
123	Enhanced biomass and lipid production of <i>Neochloris oleoabundans</i> under high light conditions by anisotropic nature of light-splitting CaCO3 crystal. <i>Bioresource Technology</i> , 2019, 287, 121483.	4.8	29
124	Preparation and Properties of PHEA/Chitosan Composite Hydrogel. <i>Polymer Journal</i> , 2004, 36, 943-948.	1.3	28
125	Signal Amplification by Magnetic Force on Polydiacetylene Supramolecules for Detection of Prostate Cancer. <i>Small</i> , 2012, 8, 209-213.	5.2	28
126	Transcriptome landscape of <i>Synechococcus elongatus</i> PCC 7942 for nitrogen starvation responses using RNA-seq. <i>Scientific Reports</i> , 2016, 6, 30584.	1.6	28

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127	Vertically encoded tetragonal hydrogel microparticles for multiplexed detection of miRNAs associated with Alzheimer's disease. <i>Analyst, The</i> , 2016, 141, 4578-4586.	1.7	28
128	Gold-based optical biosensor for single-mismatched DNA detection using salt-induced hybridization. <i>Biosensors and Bioelectronics</i> , 2012, 32, 127-132.	5.3	27
129	Outdoor cultivation of microalgae in a coal-fired power plant for conversion of flue gas CO ₂ into microalgal direct combustion fuels. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 90-99.	1.5	27
130	Introducing <i>Dunaliella</i> LIP promoter containing light-inducible motifs improves transgenic expression in <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology Journal</i> , 2016, 11, 384-392.	1.8	26
131	Signal enhancement of a micro-arrayed polydiacetylene (PDA) biosensor using gold nanoparticles. <i>Analyst, The</i> , 2012, 137, 1241.	1.7	25
132	Size-dependent plasmonic responses of single gold nanoparticles for analysis of biorecognition. <i>Analytical Biochemistry</i> , 2012, 421, 213-218.	1.1	25
133	Enhanced carbon dioxide fixation of <i>Haematococcus pluvialis</i> using sequential operating system in tubular photobioreactors. <i>Process Biochemistry</i> , 2015, 50, 1091-1096.	1.8	25
134	Quantitative analysis of the chemotaxis of a green alga, <i>Chlamydomonas reinhardtii</i> , to bicarbonate using diffusion-based microfluidic device. <i>Biomicrofluidics</i> , 2016, 10, 014121.	1.2	25
135	Highly sensitive surface-enhanced Raman scattering-based immunosensor incorporating half antibody-fragment for quantitative detection of Alzheimer's disease biomarker in blood. <i>Analytica Chimica Acta</i> , 2022, 1195, 339445.	2.6	25
136	Fabrication and testing of a PDMS multi-stacked hand-operated LOC for use in portable immunosensing systems. <i>Biomedical Microdevices</i> , 2008, 10, 859-868.	1.4	24
137	Morphological Change and Cell Disruption of <i>Haematococcus pluvialis</i> Cyst during High-Pressure Homogenization for Astaxanthin Recovery. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 513.	1.3	24
138	Strategies and advances in the pretreatment of microalgal biomass. <i>Journal of Biotechnology</i> , 2021, 341, 63-75.	1.9	24
139	Dark fermentation of hydrogen from waste glycerol using hyperthermophilic eubacterium <i>Thermotoga neapolitana</i> . <i>Environmental Progress and Sustainable Energy</i> , 2012, 31, 466-473.	1.3	23
140	Amplification of Resonant Rayleigh Light Scattering Response Using Immunogold Colloids for Detection of Lysozyme. <i>Small</i> , 2013, 9, 3485-3492.	5.2	23
141	Gold nanostar based biosensor detects epigenetic alterations on promoter of real cells. <i>Biosensors and Bioelectronics</i> , 2015, 66, 497-503.	5.3	23
142	A self-generated and degradation-resistive cratered stainless steel electrocatalyst for efficient water oxidation in a neutral electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19210-19219.	5.2	23
143	Sedimentation rate-based screening of oleaginous microalgae for utilization as a direct combustion fuel. <i>Bioresource Technology</i> , 2019, 293, 122045.	4.8	23
144	Enhanced biomass production through a repeated sequential auto-and heterotrophic culture mode in <i>Chlorella protothecoides</i> . <i>Bioresource Technology</i> , 2021, 338, 125532.	4.8	23

#	ARTICLE	IF	CITATIONS
145	Concurrent enhancement of CO ₂ fixation and productivities of omega-3 fatty acids and astaxanthin in <i>Haematococcus pluvialis</i> culture via calcium-mediated homeoviscous adaptation and biomineralization. <i>Bioresource Technology</i> , 2021, 340, 125720.	4.8	23
146	Waste mitigation and resource recovery from food industry wastewater employing microalgae-bacterial consortium. <i>Bioresource Technology</i> , 2022, 352, 127129.	4.8	23
147	Surface plasmon resonance-based inhibition assay for real-time detection of <i>Cryptosporidium parvum</i> oocyst. <i>Water Research</i> , 2008, 42, 1693-1699.	5.3	22
148	Enhancement of sensitivity using hybrid stimulus for the diagnosis of prostate cancer based on polydiacetylene (PDA) supramolecules. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1548-1553.	5.3	22
149	Mechanosensitive physiology of <i>Chlamydomonas reinhardtii</i> under direct membrane distortion. <i>Scientific Reports</i> , 2014, 4, 4675.	1.6	22
150	Enhanced biodiesel production in <i>Neochloris oleoabundans</i> by a semi-continuous process in two stage photobioreactors. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1415-1421.	1.7	22
151	Scalable Cultivation of Engineered Cyanobacteria for Squalene Production from Industrial Flue Gas in a Closed Photobioreactor. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10050-10055.	2.4	22
152	Signal enhancement strategy for a micro-arrayed polydiacetylene (PDA) immunosensor using enzyme-catalyzed precipitation. <i>Biosensors and Bioelectronics</i> , 2014, 61, 314-320.	5.3	21
153	Cancer Diagnostics: Quantitative and Specific Detection of Exosomal miRNAs for Accurate Diagnosis of Breast Cancer Using a Surface-Enhanced Raman Scattering Sensor Based on Plasmonic Head-Flocked Gold Nanopillars (Small 17/2019). <i>Small</i> , 2019, 15, 1970091.	5.2	21
154	Autotrophic Biodiesel Production from the Thermotolerant Microalga <i>Chlorella sorokiniana</i> by Enhancing the Carbon Availability with Temperature Adjustment. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 223-231.	1.4	21
155	Metabolic rewiring of synthetic pyruvate dehydrogenase bypasses for acetone production in cyanobacteria. <i>Plant Biotechnology Journal</i> , 2020, 18, 1860-1868.	4.1	21
156	Algal glycobotechnology: omics approaches for strain improvement. <i>Microbial Cell Factories</i> , 2021, 20, 163.	1.9	21
157	Sustainable microalgal biomass production in food industry wastewater for low-cost biorefinery products: a review. <i>Phytochemistry Reviews</i> , 2023, 22, 969-991.	3.1	21
158	Functional fusion mutant of <i>Candida antarctica</i> lipase B (CalB) expressed in <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 519-525.	1.1	20
159	Repeated-batch production of omega-3 enriched biomass of <i>Chlorella sorokiniana</i> via calcium-induced homeoviscous adaptation. <i>Bioresource Technology</i> , 2020, 303, 122944.	4.8	20
160	Macular pigment-enriched oil production from genome-edited microalgae. <i>Microbial Cell Factories</i> , 2022, 21, 27.	1.9	20
161	Enhancement of growth and paramylon production of <i>Euglena gracilis</i> by co-cultivation with <i>Pseudoalteromonas</i> sp. MEBIC 03485. <i>Bioresource Technology</i> , 2019, 288, 121513.	4.8	19
162	Overexpression of malic enzyme isoform 2 in <i>Chlamydomonas reinhardtii</i> PTS42 increases lipid production. <i>Bioresource Technology Reports</i> , 2019, 7, 100239.	1.5	19

#	ARTICLE	IF	CITATIONS
163	SERS-based Nanoplasmonic Exosome Analysis: Enabling Liquid Biopsy for Cancer Diagnosis and Monitoring Progression. <i>Biochip Journal</i> , 2020, 14, 231-241.	2.5	19
164	Robust cyst germination induction in <i>Haematococcus pluvialis</i> to enhance astaxanthin productivity in a semi-continuous outdoor culture system using power plant flue gas. <i>Bioresource Technology</i> , 2021, 338, 125533.	4.8	19
165	Shear Stress Effect on Transfection of Neurons Cultured in Microfluidic Devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 7330-5.	0.9	18
166	Microfluidic neural axon diode. <i>Technology</i> , 2016, 04, 240-248.	1.4	18
167	A fluorogenic molecular nanoprobe with an engineered internal environment for sensitive and selective detection of biological hydrogen sulfide. <i>Chemical Communications</i> , 2017, 53, 2275-2278.	2.2	18
168	Real-time monitoring of distinct binding kinetics of hot-spot mutant p53 protein in human cancer cells using an individual nanorod-based plasmonic biosensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128584.	4.0	18
169	Effective contamination control strategies facilitating axenic cultivation of <i>Haematococcus pluvialis</i> : Risks and challenges. <i>Bioresource Technology</i> , 2022, 344, 126289.	4.8	18
170	Effect of air distributor on the fluidization characteristics in conical gas fluidized beds. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 315-320.	1.2	17
171	Multiplex microfluidic system integrating sequential operations of microalgal lipid production. <i>Analyst</i> , 2016, 141, 1218-1225.	1.7	17
172	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 2057-2061.	1.1	16
173	Enhancement of the sensitivity of surface plasmon resonance (SPR) immunosensor for the detection of anti-GAD antibody by changing the pH for streptavidin immobilization. <i>Enzyme and Microbial Technology</i> , 2004, 35, 683-687.	1.6	16
174	Phase Controllable Transfer Printing of Patterned Polyelectrolyte Multilayers. <i>Langmuir</i> , 2009, 25, 2575-2581.	1.6	16
175	Thermophilic hydrogen fermentation using <i>Thermotoga neapolitana</i> DSM 4359 by fed-batch culture. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14014-14023.	3.8	16
176	A Microreactor System for Cultivation of <i>Haematococcus pluvialis</i> and Astaxanthin Production. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1618-1623.	0.9	16
177	A green decontamination technology through selective biomineralization of algicidal microorganisms for enhanced astaxanthin production from <i>Haematococcus pluvialis</i> at commercial scale. <i>Bioresource Technology</i> , 2021, 332, 125121.	4.8	16
178	Extractive plant cell culture. <i>Current Opinion in Biotechnology</i> , 1995, 6, 209-212.	3.3	15
179	Selective Extraction of Free Astaxanthin from <i>Haematococcus</i> Culture Using a Tandem Organic Solvent System. <i>Biotechnology Progress</i> , 2007, 23, 866-871.	1.3	15
180	Non-labeled detection of waterborne pathogen <i>Cryptosporidium parvum</i> using a polydiacetylene-based fluorescence chip. <i>Biotechnology Journal</i> , 2008, 3, 687-693.	1.8	15

#	ARTICLE	IF	CITATIONS
181	Quantitative detection of DNA by autocatalytic enlargement of hybridized gold nanoprobos. <i>Biosensors and Bioelectronics</i> , 2010, 26, 511-516.	5.3	15
182	Real-time, Sensitive, and Specific Detection of Promoter-Polymerase Interactions in Gene Transcription Using a Nanoplasmonic Sensor. <i>Advanced Materials</i> , 2013, 25, 1265-1269.	11.1	15
183	Electrochemical analysis of gold-coated magnetic nanoparticles for detecting immunological interaction. <i>Journal of Nanoparticle Research</i> , 2010, 12, 227-235.	0.8	14
184	Improvement of Photoautotrophic Algal Biomass Production after Interrupted CO ₂ Supply by Urea and KH ₂ PO ₄ Injection. <i>Energies</i> , 2021, 14, 778.	1.6	14
185	Improvement of hydrocarbon recovery by spouting solvent into culture of <i>Botryococcus braunii</i> . <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1977-1985.	1.7	13
186	Transcriptomic analysis of <i>Corynebacterium glutamicum</i> in the response to the toxicity of furfural present in lignocellulosic hydrolysates. <i>Process Biochemistry</i> , 2015, 50, 347-356.	1.8	13
187	Screening of oleaginous algal strains from <i>Chlamydomonas reinhardtii</i> mutant libraries via density gradient centrifugation. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3179-3188.	1.7	13
188	Multifaceted strategies for economic production of microalgae <i>Haematococcus pluvialis</i> -derived astaxanthin via direct conversion of CO ₂ . <i>Bioresource Technology</i> , 2022, 344, 126255.	4.8	13
189	Process development for the removal of copper from wastewater using ferric/limestone treatment. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 482-486.	1.2	12
190	Shikonin Production by Extractive Cultivation in Transformed <i>Lithospermum erythrorhizon</i> suspension and Hairy Root Cultures of <i>Lithospermum erythrorhizon</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 745, 442-454.	1.8	12
191	Extreme furfural tolerance of a soil bacterium <i>Enterobacter cloacae</i> GGT036. <i>Journal of Biotechnology</i> , 2015, 193, 11-13.	1.9	12
192	Adsorptive removal of harmful algal species <i>Microcystis aeruginosa</i> directly from aqueous solution using polyethylenimine coated polysulfone-biomass composite fiber. <i>Biodegradation</i> , 2018, 29, 349-358.	1.5	12
193	Preparation of Highly Stable Oligo(ethylene glycol) Derivatives-Functionalized Gold Nanoparticles and Their Application in LSPR-Based Detection of PSA/ACT Complex. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3754-3757.	0.9	11
194	Selective antigen-antibody recognition on SPR sensor based on the heat-sensitive conformational change of poly(N-isopropylacrylamide). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 504-508.	2.3	11
195	Ultrasensitive detection of the reduced form of nicotinamide adenine dinucleotide based on carbon nanotube field effect transistor. <i>Analyst</i> , 2012, 137, 3328.	1.7	11
196	Enhanced astaxanthin extraction efficiency from <i>Haematococcus pluvialis</i> via the cyst germination in outdoor culture systems. <i>Process Biochemistry</i> , 2015, 50, 2275-2280.	1.8	11
197	PDMS microchannel surface modification with teflon for algal lipid research. <i>Biochip Journal</i> , 2017, 11, 180-186.	2.5	11
198	Polymeric Nanocomplex Encapsulating Iron Oxide Nanoparticles in Constant Size for Controllable Magnetic Field Reactivity. <i>Langmuir</i> , 2018, 34, 12827-12833.	1.6	11

#	ARTICLE	IF	CITATIONS
199	Nanofluid research advances: Preparation, characteristics and applications in food processing. Food Research International, 2021, 150, 110751.	2.9	11
200	Drying characteristics of particles using thermogravimetric analyzer. Korean Journal of Chemical Engineering, 2003, 20, 1170-1175.	1.2	10
201	The strategy of signal amplification for ultrasensitive detection of hlgE based on aptamer-modified poly(di-acetylene) supramolecules. Biosensors and Bioelectronics, 2011, 26, 4823-4827.	5.3	10
202	Two-Dimensional Microfluidic System for the Simultaneous Quantitative Analysis of Phototactic/Chemotactic Responses of Microalgae. Analytical Chemistry, 2018, 90, 14029-14038.	3.2	10
203	Safe and Complete Extraction of Astaxanthin from <i>Haematococcus pluvialis</i> by Efficient Mechanical Disruption of Cyst Cell Wall. International Journal of Food Engineering, 2019, 15, .	0.7	10
204	Single plasmonic nanostructures for biomedical diagnosis. Journal of Materials Chemistry B, 2020, 8, 6197-6216.	2.9	10
205	Reconsidering the potential of direct microalgal biomass utilization as end-products: A review. Renewable and Sustainable Energy Reviews, 2022, 155, 111930.	8.2	10
206	Microalgal fuels: Promising energy reserves for the future. Fuel, 2022, 312, 122841.	3.4	10
207	Selective production of epothilone B by heterologous expression of propionyl-CoA synthetase in <i>Sorangium cellulosum</i> . Journal of Microbiology and Biotechnology, 2008, 18, 135-7.	0.9	10
208	Synthesis and polymerization of methacryloyl-PEG-sulfonic acid as a functional macromer for biocompatible polymeric surfaces. Macromolecular Research, 2004, 12, 379-383.	1.0	9
209	Enhanced stability of heterologous proteins by supramolecular self-assembly. Applied Microbiology and Biotechnology, 2007, 75, 347-355.	1.7	9
210	A Strategy for the Ultrasensitive Detection of Cancer Biomarkers Based on the LSPR Response of a Single AuNP. Journal of Nanoscience and Nanotechnology, 2011, 11, 5651-5656.	0.9	9
211	Plasmonic coupling-dependent SERS of gold nanoparticles anchored on methylated DNA and detection of global DNA methylation in SERS-based platforms. Journal of Optics (United Kingdom), 2015, 17, 114022.	1.0	9
212	A microscale approach for simple and rapid monitoring of cell growth and lipid accumulation in <i>Neochloris oleoabundans</i> . Bioprocess and Biosystems Engineering, 2015, 38, 2035-2043.	1.7	9
213	Autotrophic hydrogen photoproduction by operation of carbon-concentrating mechanism in <i>Chlamydomonas reinhardtii</i> under sulfur deprivation condition. Journal of Biotechnology, 2016, 221, 55-61.	1.9	9
214	Arginine-fed cultures generates triacylglycerol by triggering nitrogen starvation responses during robust growth in <i>Chlamydomonas</i> . Algal Research, 2020, 46, 101782.	2.4	9
215	Double-enhancement strategy: A practical approach to a femto-molar level detection of prostate specific antigen-alpha1-antichymotrypsin (PSA/ACT complex) for SPR immunosensing. Journal of Microbiology and Biotechnology, 2007, 17, 1031-5.	0.9	9
216	Improvement of epothilone B production by in situ removal of ammonium using cation exchange resin in <i>Sorangium cellulosum</i> culture. Biochemical Engineering Journal, 2007, 37, 328-331.	1.8	8

#	ARTICLE	IF	CITATIONS
217	Rigiflex Lithography-Based Nanodot Arrays for Localized Surface Plasmon Resonance Biosensors. <i>Langmuir</i> , 2010, 26, 6119-6126.	1.6	8
218	Apta-Biosensors for Nonlabeled Real Time Detection of Human IgE Based on Carbon Nanotube Field Effect Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4182-4187.	0.9	8
219	Capture and culturing of single microalgae cells, and retrieval of colonies using a perforated hemispherical microwell structure. <i>RSC Advances</i> , 2014, 4, 61298-61304.	1.7	8
220	Tracking of STAT3 signaling for anticancer drug-discovery based on localized surface plasmon resonance. <i>Analyst, The</i> , 2016, 141, 2493-2501.	1.7	8
221	Novel 3D-printed buoyant structures for improvement in flue gas CO ₂ -derived microalgal biomass production by enhancing anti-biofouling on vertical polymeric photobioreactor. <i>Journal of Cleaner Production</i> , 2022, 366, 133030.	4.6	8
222	TREATMENT OF HIGHLY POLLUTED GROUNDWATER BY NOVEL IRON REMOVAL PROCESS. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2001, 36, 25-38.	0.9	7
223	Electrochemical immunosensor signaling by employing enzyme-tagged antibody for the determination of antigen or antibody under single competition reaction format. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 509-514.	2.3	7
224	Effects of L-arginine on refolding of lysine-tagged human insulin-like growth factor 1 expressed in <i>Escherichia coli</i> . <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 255-263.	1.7	7
225	Femtomolar detection of single mismatches by discriminant analysis of DNA hybridization events using gold nanoparticles. <i>Analyst, The</i> , 2013, 138, 1794.	1.7	7
226	A Whole-Cell Surface Plasmon Resonance Sensor Based on a Leucine Auxotroph of <i>Escherichia coli</i> Displaying a Gold-Binding Protein: Usefulness for Diagnosis of Maple Syrup Urine Disease. <i>Analytical Chemistry</i> , 2016, 88, 2871-2876.	3.2	7
227	Multiplex real-time PCR using temperature sensitive primer-supplying hydrogel particles and its application for malaria species identification. <i>PLoS ONE</i> , 2018, 13, e0190451.	1.1	7
228	Accelerated sunlight-driven conversion of industrial flue gas into biofuels by microfluidic high-throughput screening towards improving photosynthesis in microalgae under fluctuating light. <i>Chemical Engineering Journal</i> , 2022, , 136487.	6.6	7
229	Fed-batch hairy root cultures within situ separation. <i>Biotechnology and Bioprocess Engineering</i> , 1999, 4, 106-111.	1.4	6
230	Adjuvant effect of B domain of staphylococcal protein A displayed on the surface of hepatitis B virus capsid. <i>Biotechnology and Bioengineering</i> , 2016, 113, 268-274.	1.7	6
231	Reversible and multi-cyclic protein-protein interaction in bacterial cellulosome-mimic system using rod-shaped viral nanostructure. <i>Journal of Biotechnology</i> , 2016, 221, 101-106.	1.9	6
232	Nanoplasmonic probes of RNA folding and assembly during pre-mRNA splicing. <i>Nanoscale</i> , 2016, 8, 4599-4607.	2.8	6
233	Performance of point-of-care diagnosis of AIDS: label-free one-step-immunoassay vs. lateral flow assay. <i>Analyst, The</i> , 2018, 143, 936-942.	1.7	6
234	Identification of small droplets of photosynthetic squalene in engineered <i>Synechococcus elongatus</i> PCC 7942 using TEM and selective fluorescent Nile red analysis. <i>Letters in Applied Microbiology</i> , 2018, 66, 523-529.	1.0	6

#	ARTICLE	IF	CITATIONS
235	Precisely Controlled Three-Dimensional Gold Nanoparticle Assembly Based on Spherical Bacteriophage Scaffold for Molecular Sensing via Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2502-2510.	1.5	6
236	Distinct Rayleigh Scattering from Hot Spot Mutant p53 Proteins Reveals Cancer Cells. <i>Small</i> , 2014, 10, 2954-2962.	5.2	5
237	Development of Hydrogel Microparticle based RT-qPCR for Advanced Detection of BCR-ABL1 Transcripts. <i>Biochip Journal</i> , 2019, 13, 182-190.	2.5	5
238	Strategy for high-yield astaxanthin recovery directly from wet <i>Haematococcus pluvialis</i> without pretreatment. <i>Bioresource Technology</i> , 2022, 346, 126616.	4.8	5
239	Evaluation of Chemical Interactions between Small Molecules in the Gas Phase Using Chemical Force Microscopy. <i>Sensors</i> , 2015, 15, 30683-30692.	2.1	4
240	Homologous sense and antisense expression of a gene in <i>Dunaliella tertiolecta</i> . <i>Planta</i> , 2015, 242, 1051-1058.	1.6	4
241	Microfluidic Dialysis Device Fabrication for Protein Solution Enrichment and Its Enrichment Enhancement by Plasma Surface Treatment of a Membrane. <i>Journal of the Korean Physical Society</i> , 2007, 51, 993.	0.3	4
242	Glutamate decarboxylase-derived IDDM autoantigens displayed on self-assembled protein nanoparticles. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 604-608.	1.0	3
243	Aptamer Biosensors for Label-Free Colorimetric Detection of Human IgE Based on Polydiacetylene (PDA) Supramolecules. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4269-4274.	0.9	3
244	Recombinant tagging system using ribosomal frameshifting to monitor protein expression. <i>Biotechnology and Bioengineering</i> , 2013, 110, 898-904.	1.7	3
245	Fluorogenic pH-Sensitive Polydiacetylene (PDA) Liposomes as a Drug Carrier. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 3792-3800.	0.9	3
246	Vibration-induced stress priming during seed culture increases microalgal biomass in high shear field-cultivation. <i>Bioresource Technology</i> , 2018, 254, 340-346.	4.8	3
247	Nanoplasmonic biosensing of specific LC3 autophagy markers enabling drug discovery of autophagy modulators. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131744.	4.0	3
248	Electrorheological suspensions of two polarizable particles. <i>Korean Journal of Chemical Engineering</i> , 1999, 16, 338-342.	1.2	2
249	Dynamic characteristics of bed collapse in threephase fluidized beds. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 1166-1169.	1.2	2
250	Highly sensitive and multiplexed one-step RT-qPCR for profiling genes involved in the circadian rhythm using microparticles. <i>Scientific Reports</i> , 2021, 11, 6463.	1.6	2
251	Label-free and highly sensitive nanoplasmonic biosensor-based autophagy flux sensing for clinical application. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130880.	4.0	2
252	Preparation of highly stable oligo(ethylene glycol) derivatives-functionalized gold nanoparticles and their application in LSPR-based detection of PSA/ACT complex. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3754-7.	0.9	2

#	ARTICLE	IF	CITATIONS
253	Special issue on "Liquid and gaseous biofuels: Current status and perspectives". Bioresource Technology Reports, 2019, 8, 100316.	1.5	1
254	Microalgal Biorefinery: A Sustainable Technology Toward Circular Bioeconomy and Microalgal Biomass Valorization. , 2021, , 323-350.		1
255	Effects of NOx and SOx on the Medium pH and microalgal growth in photo-culture system. Transactions of the Korean Hydrogen and New Energy Society, 2013, 24, 255-263.	0.1	1
256	Biomedical Applications: A Novel Bioassay Platform Using Ferritin-Based Nanoprobe Hydrogel (Adv.) Tj ETQq0 0 0rgBT /Overlock 10 Tf	1.1	0
257	Effect of magnetic modulation of mitochondrial voltage-dependent anion channel 2 against beta-amyloid induced neurotoxicity. RSC Advances, 2014, 4, 63681-63684.	1.7	0