

# Chia-Hung Kuo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65  
papers

1,481  
citations

21  
h-index

37  
g-index

69  
ext. papers

1,797  
ext. citations

5.2  
avg, IF

5  
L-index

#	Paper	IF	Citations
65	Enhancement of enzymatic saccharification of cellulose by cellulose dissolution pretreatments. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 41-46	10.3	214
64	Optimum conditions for lipase immobilization on chitosan-coated Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 2538-2545	10.3	166
63	Enhanced enzymatic hydrolysis of sugarcane bagasse by N-methylmorpholine-N-oxide pretreatment. <i>Bioresource Technology</i> , <b>2009</b> , 100, 866-71	11	130
62	Utilization of acetate buffer to improve bacterial cellulose production by <i>Gluconacetobacter xylinus</i> . <i>Food Hydrocolloids</i> , <b>2016</b> , 53, 98-103	10.6	59
61	A novel enzyme-assisted ultrasonic approach for highly efficient extraction of resveratrol from <i>Polygonum cuspidatum</i> . <i>Ultrasonics Sonochemistry</i> , <b>2016</b> , 32, 258-264	8.9	50
60	Enzymatic saccharification of dissolution pretreated waste cellulosic fabrics for bacterial cellulose production by <i>Gluconacetobacter xylinus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, 1346-1352	3.5	43
59	RSM and ANN modeling-based optimization approach for the development of ultrasound-assisted liposome encapsulation of piceid. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 36, 112-122	8.9	42
58	High yield of wax ester synthesized from cetyl alcohol and octanoic acid by lipozyme RMIM and Novozym 435. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 11694-704	6.3	41
57	Kinetics and optimization of lipase-catalyzed synthesis of rose fragrance 2-phenylethyl acetate through transesterification. <i>Process Biochemistry</i> , <b>2014</b> , 49, 437-444	4.8	38
56	Kinetic aspects of ultrasound-accelerated lipase catalyzed acetylation and optimal synthesis of 4-acetoxyresveratrol. <i>Ultrasonics Sonochemistry</i> , <b>2013</b> , 20, 546-52	8.9	38
55	Ultrasonic-assisted extraction of the botanical dietary supplement resveratrol and other constituents of <i>Polygonum cuspidatum</i> . <i>Journal of Natural Products</i> , <b>2012</b> , 75, 1810-3	4.9	38
54	Lipase-immobilized biocatalytic membranes for biodiesel production. <i>Bioresource Technology</i> , <b>2013</b> , 145, 229-32	11	37
53	Effect of membranes with various hydrophobic/hydrophilic properties on lipase immobilized activity and stability. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 166-72	3.3	35
52	Optimal covalent immobilization of $\alpha$ -chymotrypsin on Fe <sub>3</sub> O <sub>4</sub> -chitosan nanoparticles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2012</b> , 78, 9-15		35
51	Hydrolysis of Orange Peel with Cellulase and Pectinase to Produce Bacterial Cellulose using <i>Gluconacetobacter xylinus</i> . <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 85-93	3.2	32
50	Knock-out of glucose dehydrogenase gene in <i>Gluconacetobacter xylinus</i> for bacterial cellulose production enhancement. <i>Biotechnology and Bioprocess Engineering</i> , <b>2015</b> , 20, 18-25	3.1	31
49	Optimized ultrasound-assisted extraction of phenolic compounds from <i>Polygonum cuspidatum</i> . <i>Molecules</i> , <b>2013</b> , 19, 67-77	4.8	28

48	Optimum Lipase Immobilized on Diamine-Grafted PVDF Membrane and Its Characterization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5141-5147	3.9	27
47	Compressional-Puffing Pretreatment Enhances Neuroprotective Effects of Fucoidans from the Brown Seaweed <i>Sargassum hemiphyllum</i> on 6-Hydroxydopamine-Induced Apoptosis in SH-SY5Y Cells. <i>Molecules</i> , <b>2017</b> , 23,	4.8	26
46	The effect of extrusion puffing on the physicochemical properties of brown rice used for saccharification and Chinese rice wine fermentation. <i>Food Hydrocolloids</i> , <b>2019</b> , 94, 363-370	10.6	24
45	Role and significance of lytic polysaccharide monooxygenases (LPMOs) in lignocellulose deconstruction. <i>Bioresource Technology</i> , <b>2021</b> , 335, 125261	11	22
44	Extraction of crude chitosans from squid ( <i>Illex argentinus</i> ) pen by a compressional puffing-pretreatment process and evaluation of their antibacterial activity. <i>Food Chemistry</i> , <b>2018</b> , 254, 217-223	8.5	19
43	Antibacterial and Antioxidant Capacities and Attenuation of Lipid Accumulation in 3T3-L1 Adipocytes by Low-Molecular-Weight Fucoidans Prepared from Compressional-Puffing-Pretreated <i>Sargassum Crassifolium</i> . <i>Marine Drugs</i> , <b>2018</b> , 16,	6	19
42	Enzymatic synthesis of rose aromatic ester (2-phenylethyl acetate) by lipase. <i>Journal of the Science of Food and Agriculture</i> , <b>2012</b> , 92, 2141-7	4.3	19
41	Highly efficient extraction of EPA/DHA-enriched oil from cobia liver using homogenization plus sonication. <i>European Journal of Lipid Science and Technology</i> , <b>2017</b> , 119, 1600466	3	18
40	Response surface methodology and artificial neural network optimized synthesis of enzymatic 2-phenylethyl acetate in a solvent-free system. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2014</b> , 3, 1-6	4.2	18
39	Free Radical-Scavenging, Anti-Inflammatory, and Antibacterial Activities of Water and Ethanol Extracts Prepared from Compressional-Puffing Pretreated Mango ( <i>Mangifera indica</i> L.) Peels. <i>Journal of Food Quality</i> , <b>2018</b> , 2018, 1-13	2.7	16
38	36H: A Novel Potent Inhibitor for Antimelanogenesis. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 6354972	6.7	15
37	Advances in micro- and nano bubbles technology for application in biochemical processes. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101729	7	15
36	Optimization of Enzymatic Synthesis of Cetyl 2-Ethylhexanoate by Novozym <sup>®</sup> 435. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2011</b> , 88, 1917-1923	1.8	13
35	A continuous ultrasound-assisted packed-bed bioreactor for the lipase-catalyzed synthesis of caffeic acid phenethyl ester. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2011</b> , 86, 1289-1294	3.5	13
34	Production of Resveratrol by Piceid Deglycosylation Using Cellulase. <i>Catalysts</i> , <b>2016</b> , 6, 32	4	12
33	Comparison of Artificial Neural Networks and Response Surface Methodology towards an Efficient Ultrasound-Assisted Extraction of Chlorogenic Acid from. <i>Molecules</i> , <b>2019</b> , 24,	4.8	11
32	Developing a High-Temperature Solvent-Free System for Efficient Biocatalysis of Octyl Ferulate. <i>Catalysts</i> , <b>2018</b> , 8, 338	4	10
31	Optimization of Lipase-Catalyzed Synthesis of Cetyl Octanoate in Supercritical Carbon Dioxide. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2012</b> , 89, 103-110	1.8	9

30	Highly Efficient Synthesis of an Emerging Lipophilic Antioxidant: 2-Ethylhexyl Ferulate. <i>Molecules</i> , <b>2016</b> , 21, 478	4.8	9
29	In Vitro Evaluation of Anti-Colon Cancer Potential of Crude Extracts of Fucoïdan Obtained from <i>Sargassum Glaucescens</i> Pretreated by Compressional-Puffing. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3058	2.6	7
28	Simultaneous Saccharification and Fermentation of Waste Textiles for Ethanol Production. <i>BioResources</i> , <b>2014</b> , 9,	1.3	7
27	Novel MoS quantum dots as a highly efficient visible-light driven photocatalyst in water remediation.. <i>RSC Advances</i> , <b>2020</b> , 10, 31794-31799	3.7	7
26	An Efficient Approach for Lipase-Catalyzed Synthesis of Retinyl Laurate Nutraceutical by Combining Ultrasound Assistance and Artificial Neural Network Optimization. <i>Molecules</i> , <b>2017</b> , 22,	4.8	6
25	Synthesis of DHA/EPA Ethyl Esters via Lipase-Catalyzed Acidolysis Using Novozym $\square$ 435: A Kinetic Study. <i>Catalysts</i> , <b>2020</b> , 10, 565	4	6
24	Degradation of Fucoïdan by Ascorbic Acid and Hydrogen Peroxide, and Compositional, Structural, and In Vitro Anti-Lung Cancer Analyses of the Degradation Products. <i>Marine Drugs</i> , <b>2020</b> , 18,	6	6
23	Continuous Production of 2-Phenylethyl Acetate in a Solvent-Free System Using a Packed-Bed Reactor with Novozym $\square$ 435. <i>Catalysts</i> , <b>2020</b> , 10, 714	4	6
22	Promising activities of defective black phosphorus nanosheets as non-enzymatic hydrogen peroxide sensors. <i>Applied Surface Science</i> , <b>2021</b> , 542, 148588	6.7	6
21	Product Selectivity and Optimization of Lipase-Catalyzed 1,3-Propylene Glycol Esters by Mixture Design and RSM. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2012</b> , 89, 231-241	1.8	5
20	Effect of Oversulfation on the Composition, Structure, and In Vitro Anti-Lung Cancer Activity of Fucoïdins Extracted from. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	5
19	Formation of amide bond catalyzed by lipase in aqueous phase for peptide synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 129, 15-20		5
18	Concentration of Docosahexaenoic and Eicosapentaenoic Acid from Cobia Liver Oil by Acetone Fractionation of Fatty Acid Salts. <i>Applied Biochemistry and Biotechnology</i> , <b>2020</b> , 192, 517-529	3.2	4
17	Enzyme-Assisted Aqueous Extraction of Cobia Liver Oil and Protein Hydrolysates with Antioxidant Activity. <i>Catalysts</i> , <b>2020</b> , 10, 1323	4	4
16	Physicochemical and Antioxidant Properties of Gelatin and Gelatin Hydrolysates Obtained from Extrusion-Pretreated Fish ( sp.) Scales. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	4
15	Defective graphene nanosheets with heteroatom doping as hydrogen peroxide reduction catalysts and sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 328, 129015	8.5	4
14	A green peptide synthesis $\square$ Using a magnetic biocatalyst in a stirred-tank bioreactor. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2012</b> , 1, 20-24	4.2	3
13	Green Synthesis of Ultraviolet Absorber 2-Ethylhexyl Salicylate: Experimental Design and Artificial Neural Network Modeling. <i>Catalysts</i> , <b>2017</b> , 7, 342	4	3

12	Green and efficient production of octyl hydroxyphenylpropionate using an ultrasound-assisted packed-bed bioreactor. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2012</b> , 39, 655-60	4.2	3
11	Predicting sugar content of candied watermelon rind during osmotic dehydration. <i>Food Science and Technology</i> , <b>2018</b> , 38, 228-235	2	3
10	Bioprocessed Production of Resveratrol-Enriched Rice Wine: Simultaneous Rice Wine Fermentation, Extraction, and Transformation of Piceid to Resveratrol from Roots. <i>Foods</i> , <b>2019</b> , 8,	4.9	2
9	Lipase catalyzed acetylation of 3,5,4-trihydroxystilbene: optimization and kinetics study. <i>Bioprocess and Biosystems Engineering</i> , <b>2012</b> , 35, 1137-45	3.7	2
8	Seed-mediated growth of palladium/copper tetrapods on specific activity for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 876, 114514	4.1	2
7	Optimization of Light Intensity, Temperature, and Nutrients to Enhance the Bioactive Content of Hyperforin and Rutin in St. John's Wort. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
6	Solvent selection and optimization of Echinomycin-catalyzed synthesis of N-Ac-Phe-Tyr-NH <sub>2</sub> using mixture design and response surface methodology. <i>Biotechnology Progress</i> , <b>2012</b> , 28, 1443-9	2.8	1
5	Ultrasonic-Assisted Extraction and Structural Characterization of Chondroitin Sulfate Derived from Jumbo Squid Cartilage. <i>Foods</i> , <b>2021</b> , 10,	4.9	1
4	A Novel Biocompatible Herbal Extract-Loaded Hydrogel for Acne Treatment and Repair. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 5598291	6.7	0
3	Potential-induced sonoelectrochemical graphene nanosheets with vacancies as hydrogen peroxide reduction catalysts and sensors. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 72, 105444	8.9	0
2	Enhanced Erinacine A Production by <i>Herichium erinaceus</i> Using Solid-State Cultivation. <i>Fermentation</i> , <b>2021</b> , 7, 182	4.7	0
1	Continuous Production of DHA and EPA Ethyl Esters via Lipase-Catalyzed Transesterification in an Ultrasonic Packed-Bed Bioreactor. <i>Catalysts</i> , <b>2022</b> , 12, 404	4	0