

# Cheng-Kang Lee

## List of Publications by Year in descending order

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102  
papers

3,592  
citations

147786  
31  
h-index

149686  
56  
g-index

103  
all docs

103  
docs citations

103  
times ranked

5300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polynorbornene-derived block copolymer micelles via ring-opening metathesis polymerization with capacity of hydrogen sulfide generation. <i>European Polymer Journal</i> , 2022, 173, 111294.	5.4	1
2	Fungal Hydrophobin RoIA Enhanced PETase Hydrolysis of Polyethylene Terephthalate. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 1284-1295.	2.9	55
3	The green synthesis of a palm empty fruit bunch-derived sulfonated carbon acid catalyst and its performance for cassava peel starch hydrolysis. <i>RSC Advances</i> , 2021, 11, 6449-6455.	3.6	3
4	Class I hydrophobins pretreatment stimulates PETase for monomers recycling of waste PETs. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 157-164.	7.5	29
5	Recent Advances in Novel Lateral Flow Technologies for Detection of COVID-19. <i>Biosensors</i> , 2021, 11, 295.	4.7	66
6	Efficient Design to Monitor the Site-specific Sustained Release of a Non-Emissive Anticancer Drug. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2552-2558.	3.3	5
7	Class I hydrophobin fusion with cellulose binding domain for its soluble expression and facile purification. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 38-43.	7.5	7
8	Hyaluronic Acid Derived Hypoxia-Sensitive Nanocarrier for Tumor Targeted Drug Delivery. <i>ACS Applied Bio Materials</i> , 2021, 4, 8325-8332.	4.6	8
9	Nanofibrous Membrane with Encapsulated Glucose Oxidase for Self-Sustained Antimicrobial Applications. <i>Membranes</i> , 2021, 11, 997.	3.0	4
10	Surface Functionalization of Poly(N-Vinylpyrrolidone) onto Poly(Dimethylsiloxane) for Anti-Biofilm Application. <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 29-44.	2.9	18
11	Cellulose binding domain fusion enhanced soluble expression of fructosyl peptide oxidase and its simultaneous purification and immobilization. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 980-986.	7.5	9
12	Removal of Pb(II) and As(V) using magnetic nanoparticles coated montmorillonite via one-pot solvothermal reaction as adsorbent. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103000.	6.7	47
13	Facile coating on microporous polypropylene membrane for antifouling microfiltration using comb-shaped poly(N-vinylpyrrolidone) with multivalent catechol. <i>Journal of Membrane Science</i> , 2019, 574, 164-173.	8.2	30
14	Antimicrobial sponge prepared by hydrophobically modified chitosan for bacteria removal. <i>Carbohydrate Polymers</i> , 2018, 187, 1-7.	10.2	24
15	Pt-MWCNT modified carbon electrode strip for rapid and quantitative detection of H <sub>2</sub> O <sub>2</sub> in food. <i>Journal of Food and Drug Analysis</i> , 2018, 26, 662-669.	1.9	33
16	Flexible Metal-Organic Framework-Bacterial Cellulose Nanocomposite for Iodine Capture. <i>Crystal Growth and Design</i> , 2018, 18, 356-363.	3.0	46
17	Facile protein-resistant and anti-biofilm surface coating based on catechol-conjugated poly(N-vinylpyrrolidone). <i>Colloid and Polymer Science</i> , 2018, 296, 1173-1182.	2.1	9
18	Twofold enhanced dispersin B activity by N-terminal fusion to silver-binding peptide for biofilm eradication. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 419-426.	7.5	22

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19	Recombinant fructosyl peptide oxidase preparation and its immobilization on polydopamine coating for colorimetric determination of HbA1c. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 325-331.	7.5	5
20	Cells capture and antimicrobial effect of hydrophobically modified chitosan coating on <i>Escherichia coli</i> . <i>Carbohydrate Polymers</i> , 2017, 164, 109-117.	10.2	32
21	Catalytic performance of sulfonated carbon-based solid acid catalyst on esterification of waste cooking oil for biodiesel production. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2171-2175.	6.7	84
22	Iodine-loaded metal organic framework as growth-triggered antimicrobial agent. <i>Materials Science and Engineering C</i> , 2017, 76, 477-482.	7.3	81
23	Silver deposited carboxymethyl chitosan-grafted magnetic nanoparticles as dual action deliverable antimicrobial materials. <i>Materials Science and Engineering C</i> , 2017, 73, 544-551.	7.3	34
24	Hydrophobically modified chitosan sponge preparation and its application for anionic dye removal. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5688-5694.	6.7	10
25	Constitutive expression of recombinant human hyaluronidase PH20 by <i>Pichia pastoris</i> . <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 673-678.	2.2	13
26	Utilization of acetate buffer to improve bacterial cellulose production by <i>Gluconacetobacter xylinus</i> . <i>Food Hydrocolloids</i> , 2016, 53, 98-103.	10.7	81
27	Carbon-based strong solid acid for cornstarch hydrolysis. <i>Journal of Solid State Chemistry</i> , 2015, 230, 163-168.	2.9	47
28	Knock-out of glucose dehydrogenase gene in <i>Gluconacetobacter xylinus</i> for bacterial cellulose production enhancement. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 18-25.	2.6	50
29	Hydrophobically Modified Chitosan-Grafted Magnetic Nanoparticles for Bacteria Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 9270-9277.	3.7	28
30	Bactericidal magnetic nanoparticles with iodine loaded on surface grafted poly(N-vinylpyrrolidone). <i>Journal of Materials Chemistry B</i> , 2015, 3, 840-848.	5.8	28
31	Simultaneous Saccharification and Fermentation of Waste Textiles for Ethanol Production. <i>BioResources</i> , 2014, 9, .	1.0	16
32	An amphipathic polypeptide derived from poly( $\alpha$ -glutamic acid) for the stabilization of membrane proteins. <i>Protein Science</i> , 2014, 23, 1800-1807.	7.6	13
33	Facile microencapsulation of curcumin in acetylated starch microparticles. <i>Journal of Microencapsulation</i> , 2014, 31, 344-349.	2.8	7
34	One-step purification of delipidated Bacteriorhodopsin by aqueous-three-phase system from purple membrane of <i>Halobacterium</i> . <i>Food and Bioprocess Processing</i> , 2014, 92, 113-119.	3.6	7
35	A chitin nanofibril reinforced multifunctional monolith poly(vinyl alcohol) cryogel. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4108-4113.	5.8	23
36	Facile isolation of purple membrane from <i>Halobacterium salinarum</i> via aqueous-two-phase system. <i>Protein Expression and Purification</i> , 2013, 89, 219-224.	1.3	22

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37	Antibacterial and biocompatible surfaces based on dopamine autooxidized silver nanoparticles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 303-310.	2.1	37
38	Glutaraldehyde Vapor Cross-linked Nanofibrous PVA Mat with in Situ Formed Silver Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4745-4752.	8.0	244
39	Epsilon-Polylysine Fermentation and its Recovery Using Carboxymethyl Cellulose (CMC)-Conjugated Magnetite. <i>Separation Science and Technology</i> , 2013, 48, 1086-1092.	2.5	5
40	Facile preparation of a robust and flexible antioxidant film based on self-polymerized dopamine in a microporous battery separator. <i>RSC Advances</i> , 2012, 2, 5127.	3.6	14
41	̢ <sup>2</sup> -Chitin nanofibrils for self-sustaining hydrogels preparation via hydrothermal treatment. <i>Carbohydrate Polymers</i> , 2012, 90, 1509-1514.	10.2	41
42	Carbonaceous hydrogels based on hydrothermal carbonization of glucose with chitin nanofibers. <i>Soft Matter</i> , 2012, 8, 3522.	2.7	23
43	Stepwise assembly of multimetallic nanoparticles via self-polymerized polydopamine. <i>Journal of Materials Chemistry</i> , 2011, 21, 12316.	6.7	78
44	One-pot preparation of amine-rich magnetite/bacterial cellulose nanocomposite and its application for arsenate removal. <i>RSC Advances</i> , 2011, 1, 625.	3.6	105
45	Carbonaceous Materials Passivation on Amine Functionalized Magnetic Nanoparticles and Its Application for Metal Affinity Isolation of Recombinant Protein. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 3342-3349.	8.0	13
46	Polydopamine coated magnetic-chitin (MCT) particles as a new matrix for enzyme immobilization. <i>Carbohydrate Polymers</i> , 2011, 84, 775-780.	10.2	91
47	Characterization of hyaluronate lyase from <i>Streptococcus pyogenes</i> bacteriophage H4489A. <i>Carbohydrate Polymers</i> , 2011, 84, 1182-1191.	10.2	9
48	Facile preparation of magnetic carbonaceous nanoparticles for Pb <sup>2+</sup> ions removal. <i>Journal of Hazardous Materials</i> , 2010, 183, 853-858.	12.4	58
49	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> , 2010, 85, 1346-1352.	3.2	54
50	Nonleaching antimicrobial cotton fibers for hyaluronic acid adsorption. <i>Biochemical Engineering Journal</i> , 2010, 53, 44-51.	3.6	23
51	Hyaluronidases, a group of glycosidases: Current and future perspectives. <i>Carbohydrate Polymers</i> , 2010, 81, 165-181.	10.2	91
52	Cytotoxic and antioxidant effects of unsaturated hyaluronic acid oligomers. <i>Carbohydrate Polymers</i> , 2010, 82, 1116-1123.	10.2	15
53	Magnetic antimicrobial nanocomposite based on bacterial cellulose and silver nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 6948.	6.7	266
54	Novel carbonaceous nanocomposite pellicle based on bacterial cellulose. <i>Green Chemistry</i> , 2010, 12, 1454.	9.0	21

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55	Expression of feruloyl esterase from <i>Aspergillus awamori</i> in <i>Escherichia coli</i> : Characterization and crystal studies of the recombinant enzyme. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 440-444.	7.5	13
56	Biocatalytic reactions in hydrophobic ionic liquids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 1-12.	1.8	132
57	Self-immobilized recombinant <i>Acetobacter xylinum</i> for biotransformation. <i>Biochemical Engineering Journal</i> , 2009, 43, 78-84.	3.6	21
58	Enhanced enzymatic hydrolysis of sugarcane bagasse by N-methylmorpholine-N-oxide pretreatment. <i>Bioresource Technology</i> , 2009, 100, 866-871.	9.6	144
59	Enhancement of enzymatic saccharification of cellulose by cellulose dissolution pretreatments. <i>Carbohydrate Polymers</i> , 2009, 77, 41-46.	10.2	245
60	Subunit fusion of two yeast d-amino acid oxidases enhances their thermostability and resistance to H <sub>2</sub> O <sub>2</sub> . <i>Biotechnology Letters</i> , 2008, 30, 1415-1422.	2.2	10
61	Biosilicification of dual fusion enzyme immobilized on magnetic nanoparticle. <i>Biotechnology and Bioengineering</i> , 2008, 100, 223-230.	3.3	37
62	Preparation of biocompatible membranes by electrospinning. <i>Desalination</i> , 2008, 233, 48-54.	8.2	22
63	Expressing <i>Vitreoscilla</i> hemoglobin in statically cultured <i>Acetobacter xylinum</i> with reduced O <sub>2</sub> tension maximizes bacterial cellulose pellicle production. <i>Journal of Biotechnology</i> , 2007, 132, 38-43.	3.8	22
64	Hyaluronic acid interaction with chitosan-conjugated magnetite particles and its purification. <i>Biochemical Engineering Journal</i> , 2007, 33, 284-289.	3.6	32
65	Direct purification and immobilization of recombinant hyaluronan lyase from unclarified feedstock using immobilized metal affinity magnetite for oligo-hyaluronan preparation. <i>Biochemical Engineering Journal</i> , 2007, 37, 108-115.	3.6	6
66	Enhanced Hyaluronic Acid Production in <i>Bacillus subtilis</i> by Coexpressing Bacterial Hemoglobin. <i>Biotechnology Progress</i> , 2007, 23, 0-0.	2.6	84
67	Hyaluronic acid production by recombinant <i>Lactococcus lactis</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 339-346.	3.6	103
68	Enhancement of Cellulose Pellicle Production by Constitutively Expressing <i>Vitreoscilla</i> Hemoglobin in <i>Acetobacter xylinum</i> . <i>Biotechnology Progress</i> , 2006, 22, 1598-1603.	2.6	14
69	Purification of recombinant hyaluronan lyase of <i>Streptococcus pyogenes</i> bacteriophage H4489A expressed in <i>Escherichia coli</i> and its application for the specific determination of hyaluronan concentration. <i>Carbohydrate Polymers</i> , 2006, 65, 159-164.	10.2	6
70	Synergistic effect of co-expressing d-amino acid oxidase with T7 lysozyme on self-disruption of <i>Escherichia coli</i> cell. <i>Biochemical Engineering Journal</i> , 2006, 28, 17-22.	3.6	12
71	Synthesis and Characterization of PEG-Modified Polystyrene Particles and Isothermal Equilibrium Adsorption of Bovine Serum Albumin on these Particles. <i>Journal of Polymer Research</i> , 2006, 13, 247-254.	2.4	6
72	Enhancement of Cellulose Pellicle Production by Constitutively Expressing <i>Vitreoscilla</i> Hemoglobin in <i>Acetobacter xylinum</i> . <i>Biotechnology Progress</i> , 2006, 22, 1598-1603.	2.6	33

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73	Expression of Bacterial Hemoglobin in the Yeast, <i>Pichia pastoris</i> , with a Low O <sub>2</sub> -Induced Promoter. <i>Biotechnology Letters</i> , 2005, 27, 1491-1497.	2.2	21
74	Adsorption of BSA on the amphiphilic PEG graft copolymer-coated particles. <i>Colloid and Polymer Science</i> , 2005, 283, 917-924.	2.1	6
75	Coexpression of <i>Vitreoscilla</i> Hemoglobin Reduces the Toxic Effect of Expression of D-Amino Acid Oxidase in <i>E. coli</i> . <i>Biotechnology Progress</i> , 2004, 20, 1359-1365.	2.6	15
76	Electrostatic interactions between amphoteric latex particles and proteins. <i>Colloid and Polymer Science</i> , 2004, 283, 257-264.	2.1	19
77	Expression of the gene coding for bacterial hemoglobin improves beta-galactosidase production in a recombinant <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2003, 25, 1457-1462.	2.2	22
78	Synthesis and characterization of amphoteric latex particles. <i>Colloid and Polymer Science</i> , 2003, 281, 1092-1098.	2.1	2
79	Sequential expression of recombinant proteins and their separate recovery from a <i>Pichia pastoris</i> cultivation. <i>Biochemical Engineering Journal</i> , 2003, 16, 9-16.	3.6	15
80	Effect of cell membrane of <i>Agrobacterium radiobacter</i> on enhancing D-amino acids production from racemic hydantoins. <i>Enzyme and Microbial Technology</i> , 2001, 28, 806-814.	3.2	6
81	Modeling and simulation of a pressure-swing reactor for the conversion of poorly soluble substrate by immobilized enzyme: the case of d-hydantoinase reaction. <i>Biochemical Engineering Journal</i> , 2001, 7, 233-239.	3.6	2
82	Purification of d-hydantoinase from adzuki bean and its immobilization for N-carbamoyl-d-phenylglycine production. <i>Biochemical Engineering Journal</i> , 2001, 8, 157-164.	3.6	24
83	Recombinant <i>Escherichia coli</i> cell for d-p-hydroxyphenylglycine production from d-N-carbamoyl-p-hydroxyphenylglycine. <i>Enzyme and Microbial Technology</i> , 2000, 26, 222-228.	3.2	4
84	Nonionic Surfactant-Mediated Affinity Cloud-Point Extraction of Vancomycin. <i>Separation Science and Technology</i> , 1999, 34, 3267-3277.	2.5	21
85	Reversed Micellar Extraction of Vancomycin: Effect of pH, Salt Concentration, and Affinity Ligands. <i>Separation Science and Technology</i> , 1999, 34, 1703-1715.	2.5	4
86	Enzymatic synthesis and subsequent racemization rates determination of optically active d-5-phenylhydantoin and d-5- hydroxylphenylhydantoin. <i>Enzyme and Microbial Technology</i> , 1999, 24, 659-666.	3.2	13
87	Production of D-P-HYDROXYPHENYLGLYCINE BY N-CARBAMOYL-D-amino Acid Amidohydrolase-Overproducing <i>Escherichia coli</i> Strains. <i>Biotechnology Progress</i> , 1999, 15, 603-607.	2.6	22
88	Synthesis and characterization of chitosan-modified polymethyl methacrylate latex particles. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1489-1499.	2.3	13
89	Synthesis and characterization of amphiphilic poly(ethylene glycol) graft copolymers and their potential application as drug carriers. <i>Polymer</i> , 1998, 39, 1609-1616.	3.8	77
90	Separation of Phenylacetic Acid from 6-Aminopenicillanic Acid via Cloud-Point Extraction with N-Decyltetra(ethylene Oxide) Nonionic Surfactant. <i>Separation Science and Technology</i> , 1998, 33, 1003-1012.	2.5	7

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91	n-carbamoyl-d-p-hydroxyphenylglycine production using immobilized d-hydantoinase from recombinant E. coli. Enzyme and Microbial Technology, 1996, 19, 623-627.	3.2	22
92	Enzyme crystal embedded in latex film as immobilized enzyme. Biotechnology Letters, 1995, 9, 827-832.	0.5	0
93	Starch slurry hydrolysis using $\alpha$ -amylase immobilized on a hollow-fiber reactor. Enzyme and Microbial Technology, 1995, 17, 685-688.	3.2	11
94	Purification of Aspartase by Aqueous Two-Phase System and Affinity Membrane Chromatography in Sequence. Separation Science and Technology, 1995, 30, 509-519.	2.5	10
95	The Concentration Polarization Effect of a Macroligand on Affinity Ultrafiltration. Industrial & Engineering Chemistry Research, 1995, 34, 2104-2109.	3.7	5
96	Lysis of Micrococcus lysodeikticus cells by lysozyme covalently immobilized on the lumen of hollow fibers. Biotechnology Letters, 1994, 8, 193-198.	0.5	12
97	Macroligand-d-alanyl-d-alanine-dextran for vancomycin purification. Applied Biochemistry and Biotechnology, 1994, 44, 21-30.	2.9	6
98	Cyclic Operation of Forced Flow Electrokinetic Separation for Simultaneous Separation and Concentration of Charged Molecules. Separation Science and Technology, 1993, 28, 1211-1231.	2.5	4
99	Vancomycin partitioning in aqueous two-phase systems: Effects of pH, salts, and an affinity ligand. Biotechnology and Bioengineering, 1990, 35, 408-416.	3.3	50
100	Polydispersity effects on the behavior of aqueous two-phase two-polymer systems. Industrial & Engineering Chemistry Research, 1989, 28, 1537-1542.	3.7	30
101	The Design of Novel Scaffolds by Integrating Microbial Cellulose onto Plasma Treated Polypropylene. Advanced Materials Research, 0, 47-50, 1371-1374.	0.3	3
102	The fluorescence turn-off mechanism of a norbornene-derived homopolymer as an Al <sup>3+</sup> colorimetric and fluorescent chemosensor. Materials Advances, 0, , .	5.4	6