Jui-Che Lin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In vitro feasibility study of the use of a magnetic electrospun chitosan nanofiber composite for hyperthermia treatment of tumor cells. Acta Biomaterialia, 2012, 8, 2704-2711.	8.3	111
2	Degradation of phenol and TCE using suspended and chitosan-bead immobilized Pseudomonas putida. Journal of Hazardous Materials, 2007, 148, 660-670.	12.4	107
3	Surface properties and hemocompatibility of alkyl-siloxane monolayers supported on silicone rubber: effect of alkyl chain length and ionic functionality. Biomaterials, 1999, 20, 1533-1543.	11.4	84
4	Water-based synthesis and processing of novel biodegradable elastomers for medical applications. Journal of Materials Chemistry B, 2014, 2, 5083-5092.	5.8	76
5	Surface characterization and ex vivo blood compatibility study of plasmamodified small diameter tubing: effect of sulphur dioxide and hexamethyl-disiloxane plasmas. Biomaterials, 1995, 16, 1017-1023.	11.4	73
6	Synthesis, surface characterization, and platelet reactivity evaluation for the self-assembled monolayer of alkanethiol with sulfonic acid functionality. Journal of Biomedical Materials Research Part B, 2000, 51, 413-423.	3.1	69
7	Effects of silane- and MDP-based primers application orders on zirconia–resin adhesion—A ToF-SIMS study. Dental Materials, 2017, 33, 923-933.	3.5	68
8	MRI of Gallstones with Different Compositions. American Journal of Roentgenology, 2004, 182, 1513-1519.	2.2	65
9	Study of sodium tripolyphosphate-crosslinked chitosan beads entrapped with Pseudomonas putida for phenol degradation. Process Biochemistry, 2008, 43, 83-92.	3.7	65
10	Riboflavin-ultraviolet-A-induced collagen cross-linking treatments in improving dentin bonding. Dental Materials, 2013, 29, 682-692.	3.5	49
11	Surface characterization and platelet adhesion studies on fluorocarbons prepared by plasma-induced graft polymerization. Journal of Biomaterials Science, Polymer Edition, 2000, 11, 701-714.	3.5	45
12	Surface characterization and platelet adhesion studies of self-assembled monolayer with phosphonate ester and phosphonic acid functionalities. Journal of Biomedical Materials Research Part B, 2001, 55, 554-565.	3.1	43
13	Cometabolic degradation kinetics of TCE and phenol by Pseudomonas putida. Chemosphere, 2008, 72, 1671-1680.	8.2	41
14	Surface Characterization and Platelet Adhesion Studies of Plasma-Carboxylated Polyethylene. Journal of Colloid and Interface Science, 1993, 156, 207-217.	9.4	40
15	Surface characterization and platelet adhesion studies for the mixed self-assembled monolayers with amine and carboxylic acid terminated functionalities. Journal of Biomedical Materials Research - Part A, 2007, 82A, 820-830.	4.0	40
16	The inhibition of TNF-α-induced E-selectin expression in endothelial cells via the JNK/NF-κB pathways by highly N-acetylated chitooligosaccharides. Biomaterials, 2007, 28, 1355-1366.	11.4	40
17	Characterization and Blood Coagulation Evaluation of the Water-Soluble Chitooligosaccharides Prepared by a Facile Fractionation Method. Biomacromolecules, 2003, 4, 1691-1697.	5.4	39
18	Surface characterization and in vitro platelet compatibility study of surface sulfonated chitosan membrane with amino group protection–deprotection strategy. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 291-310.	3.5	36

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19	Polyethylene Surface Sulfonation: Surface Characterization and Platelet Adhesion Studies. Journal of Colloid and Interface Science, 1994, 164, 99-106.	9.4	35
20	Surface and blood-contacting properties of alkylsiloxane monolayers supported on silicone rubber. Journal of Biomedical Materials Research Part B, 1995, 29, 535-548.	3.1	35
21	Surface characterization and platelet adhesion studies on polyurethane surface immobilized with C60. Biomaterials, 1999, 20, 1613-1620.	11.4	25
22	Preconditioning Gold Substrates Influences Organothiol Self-assembled Monolayer (SAM) Formation. Journal of Colloid and Interface Science, 2001, 238, 259-266.	9.4	25
23	Surface characterization and platelet adhesion studies of plasma polymerized phosphite and its copolymers with dimethylsulfate. Biomaterials, 1999, 20, 1439-1447.	11.4	23
24	Surface characterization and platelet compatibility evaluation of surface-sulfonated chitosan membrane. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 543-557.	3.5	23
25	Solvent and concentration effects on the surface characteristics and platelet compatibility of zwitterionic sulfobetaine-terminated self-assembled monolayers. Colloids and Surfaces B: Biointerfaces, 2013, 101, 376-383.	5.0	23
26	Studies of a novel human thrombomodulin immobilized substrate: surface characterization and anticoagulation activity evaluation. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 1075-1089.	3.5	22
27	Surface characterization and platelet adhesion studies on polyethylene surface with hirudin immobilization. Journal of Materials Science: Materials in Medicine, 2001, 12, 827-832.	3.6	21
28	Feasibility evaluation of chitosan coatings on polyethylene tubing for biliary stent applications. Journal of Applied Polymer Science, 2005, 97, 893-902.	2.6	20
29	Improving the Surface Biocompatibility with the Use of Mixed Zwitterionic Self-Assembled Monolayers Prepared by a Proper Solvent. Langmuir, 2011, 27, 7091-7098.	3.5	20
30	In VitroFibrinogen Adsorption from Various Dilutions of Human Blood Plasma on Glow Discharge Modified Polyethylene. Journal of Colloid and Interface Science, 1996, 182, 315-325.	9.4	19
31	Feasibility of rapid quantitation of stratum corneum lipid content by Fourier transform infrared spectrometry. Spectroscopy, 2004, 18, 423-431.	0.8	19
32	Design and fabrication of a TiO 2 /nano-silicon composite visible light photocatalyst. Applied Surface Science, 2006, 253, 898-903.	6.1	19
33	Bioactivity and Platelet Adhesion Study of a Human Thrombomodulin-Immobilized Nitinol Surface. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 807-819.	3.5	19
34	Studies of magnetic alginate-based electrospun matrices crosslinked with different methods for potential hyperthermia treatment. Materials Science and Engineering C, 2016, 62, 338-349.	7.3	19
35	Studies of PET nonwovens modified by novel antimicrobials configured with both <i>N</i> -halamine and dual quaternary ammonium with different alkyl chain length. RSC Advances, 2019, 9, 7257-7265.	3.6	19
36	Ex-vivo blood compatibility of silicone-containing biomaterials. Journal of Materials Science: Materials in Medicine, 1994, 5, 207-213.	3.6	18

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37	Studies of sulfonated polyethylene for biliary stent application. Journal of Applied Polymer Science, 2004, 92, 2450-2457.	2.6	17
38	<i>In vitro</i> characterization of magnetic electrospun IDA-grafted chitosan nanofiber composite for hyperthermic tumor cell treatment. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 1152-1163.	3.5	17
39	Surface characterization and platelet compatibility evaluation of the binary mixed self-assembled monolayers. Journal of Colloid and Interface Science, 2007, 308, 474-484.	9.4	16
40	Argon-Plasma-Treated Chitosan: Surface Characterization and Initial Attachment of Osteoblasts. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 563-579.	3.5	15
41	Synthesis and Characterization of Poly(vinyl alcohol) Membranes with Quaternary Ammonium Groups for Wound Dressing. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 429-443.	3.5	13
42	Characteristics and cyto-compatibility of Collagen/Ca–P coatings on Ti6Al4V substrate. Surface and Coatings Technology, 2011, 205, 4683-4689.	4.8	12
43	Genetic Polymorphisms in Inflammasome-Dependent Innate Immunity among Pediatric Patients with Severe Renal Parenchymal Infections. PLoS ONE, 2015, 10, e0140128.	2.5	12
44	Surface modification of titanium substrate with a novel covalently-bound copolymer thin film for improving its platelet compatibility. Journal of Materials Science: Materials in Medicine, 2015, 26, 79.	3.6	12
45	Investigations of silane-MDP interaction in universal adhesives: A ToF-SIMS analysis. Dental Materials, 2022, 38, 183-193.	3.5	12
46	Surface characterization and platelet compatibility evaluation of binary mixed self-assembled monolayers containing novel sulfonic acid terminated alkanethiol. Colloids and Surfaces B: Biointerfaces, 2010, 79, 156-163.	5.0	11
47	Studies of osteoblast-like MG-63 cellular proliferation and differentiation with cyclic stretching cell culture system on biomimetic hydrophilic layers modified polydimethylsiloxane substrate. Biochemical Engineering Journal, 2021, 168, 107946.	3.6	11
48	Synthesis and property evaluations of photocrosslinkable chitosan derivative and its photocopolymerization with poly(ethylene glycol). Journal of Applied Polymer Science, 2006, 100, 1794-1801.	2.6	10
49	Platelet Compatibility Improvement by Proper Choice of Acidic Terminal Functionality for Mixed-Charge Self-Assembled Monolayers. Langmuir, 2012, 28, 640-647.	3.5	10
50	Effect of alkyl chain length and fluorine content on the surface characteristics and antibacterial activity of surfaces grafted with brushes containing quaternized ammonium and fluoro-containing monomers. Colloids and Surfaces B: Biointerfaces, 2021, 202, 111674.	5.0	10
51	In vitro andin vivo studies for modified ethyl cyanoacrylate regimens for sclerotherapy. Journal of Biomedical Materials Research Part B, 2000, 53, 799-805.	3.1	9
52	Surface Phosphorylation for Polyelectrolyte Complex of Chitosan and Its Sulfonated Derivative: Surface Analysis, Blood Compatibility and Adipose Derived Stem Cell Contact Properties. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 233-250.	3.5	9
53	Studies of proliferation and chondrogenic differentiation of rat adipose stem cells using an anti-oxidative polyurethane scaffold combined with cyclic compression culture. Materials Science and Engineering C, 2020, 112, 110964.	7.3	9
54	Interaction of silane with 10-MDP on affecting surface chemistry and resin bonding of zirconia. Dental Materials, 2022, 38, 715-724.	3.5	9

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55	Properties of phospholipid monolayer deposited on a fluorinated polyurethane. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 957-969.	3.5	7
56	Surface Modification of Polyurethane Membrane with Various Hydrophilic Monomers and N-Halamine: Surface Characterization and Antimicrobial Properties Evaluation. Polymers, 2021, 13, 2321.	4.5	7
57	Studies of surface grafted collagen and transforming growth factor Î ² 1 combined with cyclic stretching as a dual chemical and physical stimuli approach for rat adipose-derived stem cells (rADSCs) chondrogenesis differentiation. Journal of the Mechanical Behavior of Biomedical Materials. 2020. 112. 104062.	3.1	6
58	Studies of the Sulfonated Hydrogenated Styrene–Isoprene–Styrene Block Copolymer and Its Surface Properties, Cytotoxicity, and Platelet-Contacting Characteristics. Polymers, 2021, 13, 235.	4.5	5
59	A facile novel fluorocarbon copolymer solution coating process for improving platelet compatibility of titanium. Materials Science and Engineering C, 2017, 80, 584-593.	7.3	3
60	Sulfonation and Characterization of Tert-Butyl Styrene/Styrene/Isoprene Copolymer and Polypropylene Blends for Blood Compatibility Applications. Polymers, 2020, 12, 1351.	4.5	2
61	Novel Polymerization of Dental Composites Using Near-Infrared-Induced Internal Upconversion Blue Luminescence. Polymers, 2021, 13, 4304.	4.5	2
62	Studies of zwitterionic sulfobetaine functionalized polypropylene surface with or without polyethylene glycol spacer: surface characterization, antibacterial adhesion, and platelet compatibility evaluation. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 2060-2077.	3.5	1
63	Surface Characterization and In-vitro Blood Compatibility Study of the Mixed Self-assembled Monolayers. IFMBE Proceedings, 2009, , 1418-1421.	0.3	1
64	Studies of polypropylene surface modified with novel beta-thiopropionate-based zwitterionic polymeric brush: synthesis, surface characterization, and significantly reduced fouling characteristics evaluation. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 310-323.	3.5	0