

Ilsoon Lee

List of Publications by Year in descending order

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69
papers

2,696
citations

159585

30
h-index

189892

50
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71
all docs

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docs citations

71
times ranked

3966
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanometal-Decorated Exfoliated Graphite Nanoplatelet Based Glucose Biosensors with High Sensitivity and Fast Response. <i>ACS Nano</i> , 2008, 2, 1825-1832.	14.6	421
2	Simple Fabrication of a Highly Sensitive Glucose Biosensor Using Enzymes Immobilized in Exfoliated Graphite Nanoplatelets Nafion Membrane. <i>Chemistry of Materials</i> , 2007, 19, 6240-6246.	6.7	198
3	Immobilization of cellulase on magnetoresponse graphene nano-supports. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 90, 76-86.	1.8	102
4	Time Controlled Protein Release from Layer-by-Layer Assembled Multilayer Functionalized Agarose Hydrogels. <i>Advanced Functional Materials</i> , 2010, 20, 247-258.	14.9	94
5	Identification of a Novel Benzimidazole That Inhibits Bacterial Biofilm Formation in a Broad-Spectrum Manner. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4369-4378.	3.2	92
6	Wrinkle-Free Nanomechanical Film: Control and Prevention of Polymer Film Buckling. <i>Nano Letters</i> , 2007, 7, 372-379.	9.1	82
7	Cell Adhesion on Polyelectrolyte Multilayer Coated Polydimethylsiloxane Surfaces with Varying Topographies. <i>Tissue Engineering</i> , 2007, 13, 2105-2117.	4.6	73
8	Patterned Co-Culture of Primary Hepatocytes and Fibroblasts Using Polyelectrolyte Multilayer Templates. <i>Macromolecular Bioscience</i> , 2007, 7, 344-353.	4.1	71
9	Controlling Primary Hepatocyte Adhesion and Spreading on Protein-Free Polyelectrolyte Multilayer Films. <i>Journal of the American Chemical Society</i> , 2004, 126, 16286-16287.	13.7	69
10	Selective Electroless Nickel Plating of Particle Arrays on Polyelectrolyte Multilayers. <i>Chemistry of Materials</i> , 2003, 15, 4583-4589.	6.7	68
11	Intact Pattern Transfer of Conductive Exfoliated Graphite Nanoplatelet Composite Films to Polyelectrolyte Multilayer Platforms. <i>Advanced Materials</i> , 2008, 20, 2008-2012.	21.0	59
12	Self-assembled particle monolayers on polyelectrolyte multilayers: particle size effects on formation, structure, and optical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 259, 45-53.	4.7	58
13	Multilayer mediated forward and patterned siRNA transfection using linear-PEI at extended N/P ratios. <i>Acta Biomaterialia</i> , 2009, 5, 1474-1488.	8.3	54
14	Cell Adhesive Behavior on Thin Polyelectrolyte Multilayers: Cells Attempt to Achieve Homeostasis of Its Adhesion Energy. <i>Langmuir</i> , 2010, 26, 12794-12802.	3.5	47
15	Selective Depositions on Polyelectrolyte Multilayers: Self-Assembled Monolayers of m-dPEG Acid as Molecular Template. <i>Journal of the American Chemical Society</i> , 2004, 126, 4697-4703.	13.7	46
16	Primary Neuron/Astrocyte Co-Culture on Polyelectrolyte Multilayer Films: A Template for Studying Astrocyte-Mediated Oxidative Stress in Neurons. <i>Advanced Functional Materials</i> , 2008, 18, 294-301.	14.9	46
17	Buckling in nanomechanical films. <i>Soft Matter</i> , 2010, 6, 3701.	2.7	46
18	Molecular Self-Assembly: Smart Design of Surface and Interface via Secondary Molecular Interactions. <i>Langmuir</i> , 2013, 29, 2476-2489.	3.5	43

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19	Design of ultrathin nanostructured polyelectrolyte-based membranes with high perchlorate rejection and high permeability. <i>Separation and Purification Technology</i> , 2015, 145, 113-119.	7.9	40
20	Controlling amine receptor group density on aluminum oxide surfaces by mixed silane self assembly. <i>Thin Solid Films</i> , 2000, 379, 94-100.	1.8	37
21	Polymer Adhesion vs Substrate Receptor Group Density. <i>Macromolecules</i> , 2000, 33, 2680-2687.	4.8	37
22	Renewable Dehydrogenase-Based Interfaces for Bioelectronic Applications. <i>Langmuir</i> , 2007, 23, 7127-7133.	3.5	36
23	Effects of Catalyst Introduction Methods Using PAMAM Dendrimers on Selective Electroless Nickel Deposition on Polyelectrolyte Multilayers. <i>Langmuir</i> , 2007, 23, 7404-7410.	3.5	35
24	Compressive behavior of aluminum/copper hybrid foams under high strain rate loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 592, 111-120.	5.6	35
25	A facile method of nickel electroless deposition on various neutral hydrophobic polymer surfaces. <i>Applied Surface Science</i> , 2013, 283, 309-320.	6.1	34
26	Patterned and Controlled Polyelectrolyte Fractal Growth and Aggregations. <i>Langmuir</i> , 2004, 20, 2478-2483.	3.5	32
27	Recent Progress in the Applications of Layer-By-Layer Assembly to the Preparation of Nanostructured Ion-Rejecting Water Purification Membranes. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2178-2189.	0.9	32
28	Amperometric Detection and Quantification of Nitrate Ions Using a Highly Sensitive Nanostructured Membrane Electrodeposited Biosensor Array. <i>Electroanalysis</i> , 2015, 27, 1127-1137.	2.9	32
29	Fast and efficient nanoshear hybrid alkaline pretreatment of corn stover for biofuel and materials production. <i>Biomass and Bioenergy</i> , 2013, 51, 35-42.	5.7	31
30	Designing fouling-resistant clay-embedded polyelectrolyte multilayer membranes for wastewater effluent treatment. <i>Journal of Membrane Science</i> , 2016, 512, 21-28.	8.2	30
31	Nano-deposition on 3-D open-cell aluminum foam materials for improved energy absorption capacity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 572, 75-82.	5.6	28
32	Nanostructured Biosensor for Measuring Neuropathy Target Esterase Activity. <i>Analytical Chemistry</i> , 2007, 79, 5196-5203.	6.5	27
33	Cellulase Immobilized Nanostructured Supports for Efficient Saccharification of Cellulosic Substrates. <i>Topics in Catalysis</i> , 2012, 55, 1231-1246.	2.8	27
34	Arrays of lipid bilayers and liposomes on patterned polyelectrolyte templates. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 461-469.	9.4	26
35	Modeling and simulation of the quasi-static compressive behavior of Al/Cu hybrid open-cell foams. <i>International Journal of Solids and Structures</i> , 2015, 54, 135-146.	2.7	26
36	Nanostructured Crosslinkable Micropatterns by Amphiphilic Dendrimer Stamping. <i>Macromolecular Rapid Communications</i> , 2004, 25, 935-941.	3.9	25

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37	Impact of cationic polyelectrolyte on the nanoshear hybrid alkaline pretreatment of corn stover: Morphology and saccharification study. <i>Bioresource Technology</i> , 2013, 133, 45-50.	9.6	24
38	Thermodynamic analysis of polymer-solid adhesion: Sticker and receptor group effects. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2343-2353.	2.1	23
39	Control of Specular and Diffuse Reflection of Light Using Particle Self-Assembly at the Polymer and Metal Interface. <i>Advanced Functional Materials</i> , 2007, 17, 3619-3625.	14.9	23
40	Transitional behavior of polymeric hollow microsphere formation in turbulent shear flow by emulsion diffusion method. <i>Polymer</i> , 2012, 53, 205-212.	3.8	23
41	Recent Advances in the Fabrication of Nanostructured Barrier Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2157-2177.	0.9	22
42	Intact transfer of layered, bionanocomposite arrays by microcontact printing. <i>Chemical Communications</i> , 2005, , 316-318.	4.1	21
43	Nanorice and Nanospears from Polymer Nanospheres. <i>Advanced Materials</i> , 2006, 18, 2471-2475.	21.0	21
44	Tethered Lipid Bilayers on Electrolessly Deposited Gold for Bioelectronic Applications. <i>Biomacromolecules</i> , 2006, 7, 3327-3335.	5.4	20
45	A versatile approach to selective and inexpensive copper patterns using polyelectrolyte multilayer coatings. <i>Thin Solid Films</i> , 2006, 515, 2347-2352.	1.8	19
46	Dynamic encapsulation of hydrophilic nisin in hydrophobic poly (lactic acid) particles with controlled morphology by a single emulsion process. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 85-93.	9.4	18
47	Adsorption and interlayer diffusion controlled growth and unique surface patterned growth of polyelectrolyte multilayers. <i>Polymer</i> , 2017, 109, 297-306.	3.8	18
48	Conductive oxygen barrier films using supramolecular assembly of graphene embedded polyelectrolyte multilayers. <i>Journal of Colloid and Interface Science</i> , 2013, 409, 219-226.	9.4	17
49	Effect of annealing on the mechanical properties of nano-copper reinforced open-cell aluminum foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 613, 340-351.	5.6	17
50	Development of polyelectrolyte multilayer membranes to reduce the COD level of electrocoagulation treated high-strength wastewater. <i>Journal of Membrane Science</i> , 2015, 496, 259-266.	8.2	17
51	Time Controlled Release of Arabinofuranosylcytosine (Ara-C) from Agarose Hydrogels using Layer-by-Layer Assembly: An In Vitro Study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 439-463.	3.5	16
52	Direct Transfer of Preformed Patterned Bio-Nanocomposite Films on Polyelectrolyte Multilayer Templates. <i>Macromolecular Bioscience</i> , 2007, 7, 789-797.	4.1	15
53	Stable Aqueous Suspension and Self-Assembly of Graphite Nanoplatelets Coated with Various Polyelectrolytes. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-11.	2.7	15
54	Tunable Resistive m-dPEG Acid Patterns on Polyelectrolyte Multilayers at Physiological Conditions: A Template for Directed Deposition of Biomacromolecules. <i>Langmuir</i> , 2008, 24, 224-230.	3.5	14

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55	Step-edge like template fabrication of polyelectrolyte supported nickel nanowires. <i>Nanotechnology</i> , 2007, 18, 245305.	2.6	13
56	Synchronous Generation of Nano- and Microscaled Hierarchical Porous Polyelectrolyte Multilayers for Superwetable Surfaces. <i>Langmuir</i> , 2016, 32, 8494-8500.	3.5	13
57	Enzyme production by the mixed fungal culture with nano-shear pretreated biomass and lignocellulose hydrolysis. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2123-2130.	3.3	12
58	Fabrication of poly(lactic acid) nano- and microparticles using a nanomixer via nanoprecipitation or emulsion diffusion. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46199.	2.6	12
59	Versatile bioelectronic interfaces on flexible non-conductive substrates. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1481-1487.	10.1	11
60	Optimum Polymer - Solid Interface Design for Adhesion Strength: Carboxylation of Polybutadiene and Mixed Silanes Surface Modification of Aluminum Oxide. <i>Journal of Adhesion</i> , 2001, 75, 299-324.	3.0	10
61	Theoretical and experimental study of bi-enzyme electrodes with substrate recycling. <i>Journal of Electroanalytical Chemistry</i> , 2010, 641, 104-110.	3.8	10
62	Development of Layered Multiscale Porous Thin Films by Tuning Deposition Time and Molecular Weight of Polyelectrolytes. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1669-1674.	3.9	10
63	Single-cell membrane drug delivery using porous pen nanodeposition. <i>Nanoscale</i> , 2018, 10, 12704-12712.	5.6	8
64	Carbon nanotubes tuned foam structures as novel nanostructured biocarriers for lignocellulose hydrolysis. <i>Biotechnology Letters</i> , 2013, 35, 181-188.	2.2	7
65	Polyelectrolyte Multilayer Stamping in Aqueous Phase and Non-Contact Mode. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8851-8858.	3.7	5
66	Role of clays in fouling-resistant clay-embedded polyelectrolyte multilayer membranes for wastewater effluent treatment. <i>Separation Science and Technology</i> , 2017, 52, 2108-2119.	2.5	2
67	Encapsulation of hydrophobic or hydrophilic iron oxide nanoparticles into poly(lactic acid) micro/nanoparticles via adaptable emulsion setup. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	1
68	Multi-layer coated nanorobot end-effector for efficient drug delivery. , 2016, , .		0
69	Recent Progress in the Development of Novel Nanostructured Biosensors for Detection of Waterborne Contaminants. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2013, , 1-34.	0.8	0