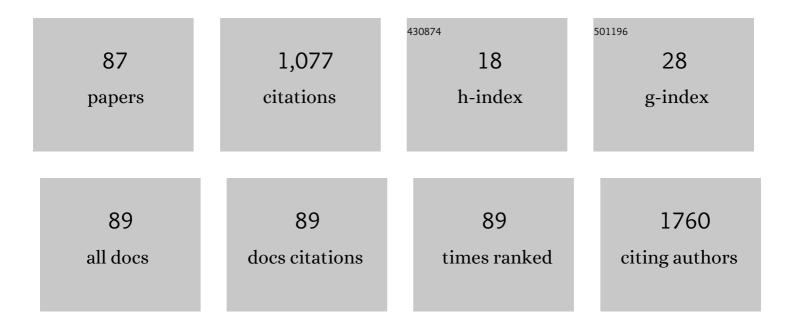
Chan-Hee Jung

List of Publications by Year in descending order

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CHAN-HEE LUNC

#	Article	IF	CITATIONS
1	Active Digital Microfluidic Paper Chips with Inkjetâ€Printed Patterned Electrodes. Advanced Materials, 2014, 26, 2335-2340.	21.0	128
2	Fabrication and characterization of inkjet-printed carbon nanotube electrode patterns on paper. Carbon, 2013, 58, 116-127.	10.3	98
3	Preparation of flexible PLA/PEG-POSS nanocomposites by melt blending and radiation crosslinking. Radiation Physics and Chemistry, 2014, 102, 23-28.	2.8	43
4	Polyacrylonitrile-grafted reduced graphene oxide hybrid: An all-round and efficient hole-extraction material for organic and inorganic-organic hybrid photovoltaics. Nano Energy, 2017, 31, 19-27.	16.0	39
5	Preparation of conductive carbon films from polyacrylonitrile/graphene oxide composite films by thermal treatment. Journal of Industrial and Engineering Chemistry, 2018, 58, 87-91.	5.8	34
6	High-performance polymer solar cells with radiation-induced and reduction-controllable reduced graphene oxide as an advanced hole transporting material. Carbon, 2014, 79, 321-329.	10.3	29
7	Rapid, facile, and eco-friendly reduction of graphene oxide by electron beam irradiation in an alcohol–water solution. Materials Letters, 2014, 126, 151-153.	2.6	28
8	Electron-beam-induced reduced graphene oxide as an alternative hole-transporting interfacial layer for high-performance and reliable polymer solar cells. Organic Electronics, 2016, 34, 67-74.	2.6	28
9	Preparation of polymer/POSS nanocomposites by radiation processing. Radiation Physics and Chemistry, 2009, 78, 517-520.	2.8	24
10	Fabrication and characterization of radiation-resistant LDPE/MWCNT nanocomposites. Journal of Nuclear Materials, 2013, 438, 41-45.	2.7	24
11	Radiation-induced grafting of inorganic particles onto polymer backbone: A new method to design polymer-based nanocomposite. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 203-206.	1.4	22
12	A simple PAN-based fabrication method for microstructured carbon electrodes for organic field-effect transistors. Carbon, 2015, 87, 257-268.	10.3	22
13	Efficient Immobilization and Patterning of Biomolecules on Poly(ethylene terephthalate) Films Functionalized by Ion Irradiation for Biosensor Applications. ACS Applied Materials & Interfaces, 2011, 3, 2235-2239.	8.0	21
14	Surface Morphology Control of Polymer Films by Electron Irradiation and Its Application to Superhydrophobic Surfaces. ACS Applied Materials & amp; Interfaces, 2011, 3, 2988-2993.	8.0	21
15	Surface modification of multi-walled carbon nanotubes by radiation-induced graft polymerization. Current Applied Physics, 2009, 9, S85-S87.	2.4	20
16	Electron beam-induced crosslinking of poly(butylene adipate-co-terephthalate). Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3386-3389.	1.4	20
17	Surface modification of Nafion membranes by ion implantation to reduce methanol crossover in direct methanol fuel cells. RSC Advances, 2016, 6, 62467-62470.	3.6	19
18	Patterned immobilization of biomolecules by using ion irradiationâ€induced graft polymerization. Journal of Polymer Science Part A, 2009, 47, 6124-6134.	2.3	18

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19	Poly(acrylic acid)-Grafted Fluoropolymer Films for Highly Sensitive Fluorescent Bioassays. ACS Applied Materials & Interfaces, 2013, 5, 2155-2160.	8.0	18
20	Morphological, optical, and electrical investigations of solution-processed reduced graphene oxide and its application to transparent electrodes in organic solar cells. Journal of Industrial and Engineering Chemistry, 2015, 21, 877-883.	5.8	17
21	Shortening of multi-walled carbon nanotubes by Î ³ -irradiation in the presence of hydrogen peroxide. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3491-3494.	1.4	16
22	Fabrication and electric heating behavior of carbon thin films from water-soluble poly(vinyl alcohol) via simple dry and ambient stabilization and carbonization. Applied Surface Science, 2018, 456, 561-567.	6.1	16
23	Preparation of sulfonated crosslinked poly(2,6â€dimethylâ€1,4â€phenylene oxide) membranes for direct methanol fuel cells by using electron beam irradiation. Journal of Polymer Science Part A, 2010, 48, 2725-2731.	2.3	15
24	Preparation of polystyrene-grafted poly(vinylidene fluoride) membranes for lithium secondary batteries. Journal of Industrial and Engineering Chemistry, 2008, 14, 116-119.	5.8	14
25	Direct patterning of poly(acrylic acid) on polymer surfaces by ion beam lithography for the controlled adhesion of mammalian cells. Biotechnology Letters, 2014, 36, 2135-2142.	2.2	14
26	Fabrication of large Pt nanoparticles-decorated rGO counter electrode for highly efficient DSSCs. Journal of Industrial and Engineering Chemistry, 2018, 65, 318-324.	5.8	14
27	Efficient polymer solar cells with a solution-processed gold chloride as an anode interfacial modifier. Applied Physics Letters, 2013, 102, 163302.	3.3	13
28	Eco-friendly and simple radiation-based preparation of graphene and its application to organic solar cells. Journal Physics D: Applied Physics, 2014, 47, 015105.	2.8	13
29	Efficient modification of transparent graphene electrodes by electron beam irradiation for organic solar cells. Journal of Industrial and Engineering Chemistry, 2015, 26, 210-213.	5.8	13
30	Patterning of biomolecules on a poly(É›-caprolactone) film surface functionalized by ion implantation. Colloids and Surfaces B: Biointerfaces, 2009, 74, 375-379.	5.0	11
31	Simple and Biocompatible Micropatterning of Multiple Cell Types on a Polymer Substrate by Using Ion Implantation. Langmuir, 2010, 26, 18437-18441.	3.5	11
32	Photosensitive polymer brushes grafted onto PTFE film surface for micropatterning of proteins. Journal of Materials Chemistry, 2010, 20, 2007.	6.7	11
33	Preparation of sulfonated reduced graphene oxide by radiation-induced chemical reduction of sulfonated graphene oxide. Carbon Letters, 2015, 16, 41-44.	5.9	11
34	Patterned grafting of acrylic acid onto polymer substrates. Polymers for Advanced Technologies, 2009, 20, 173-177.	3.2	10
35	The effects of energetic ion irradiation on metal-to-polymer adhesion. Radiation Physics and Chemistry, 2012, 81, 919-922.	2.8	10
36	Preparation and characterization of crosslinked poly(butylene adipate-co-terephthalate)/polyhedral oligomeric silsesquioxane nanocomposite by electron beam irradiation. Radiation Physics and Chemistry, 2013, 82, 100-105.	2.8	10

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37	Preparation of porous carbon films from polyacrylonitrile by proton irradiation and carbonization. Radiation Physics and Chemistry, 2017, 141, 369-374.	2.8	10
38	Structural design considerations of solution-processable graphenes as interfacial materials <i>via</i> a controllable synthesis method for the achievement of highly efficient, stable, and printable planar perovskite solar cells. Nanoscale, 2019, 11, 890-900.	5.6	10
39	Highly-dispersible reduced graphene oxide/polymer nanocomposites as efficient hole-transporting materials for perovskite solar cells. Composites Science and Technology, 2021, 201, 108548.	7.8	10
40	Patterning of cells on a PVC film surface functionalized by ion irradiation. Polymers for Advanced Technologies, 2010, 21, 135-138.	3.2	9
41	Preparation of Thin Porous Carbon Membranes from Polyacrylonitrile by Phase Separation and Heat Treatment. Journal of Nanoscience and Nanotechnology, 2017, 17, 5822-5825.	0.9	9
42	Electrically stimulable indium tin oxide plate for long-term in vitro cardiomyocyte culture. Biomaterials Research, 2020, 24, 10.	6.9	8
43	Preparation of Polypropylene Compatibilizer by Radiation Grafting and Its Effect on PP/Nylon 6 Blend. Macromolecular Symposia, 2007, 249-250, 573-579.	0.7	7
44	Actuation of Digital Micro Drops by Electrowetting on Open Microfluidic Chips Fabricated in Photolithography. Journal of Nanoscience and Nanotechnology, 2014, 14, 5894-5897.	0.9	7
45	Facile construction of electrically-conductive carbon patterns from a cheap coal-type pitch and their application to electric heating devices. Journal of Industrial and Engineering Chemistry, 2016, 39, 188-193.	5.8	7
46	Preparation and electrical-property characterization of poly(vinyl chloride)-derived carbon nanosheet by ion beam irradiation-induced carbon clustering and carbonization. Applied Surface Science, 2018, 439, 968-975.	6.1	7
47	Biocompatibility Improvement of Polytetrafluoroethylene by Ion Implantation. Journal of the Korean Physical Society, 2008, 52, 819-823.	0.7	7
48	Preparation and characterization of solution-processible polymer-grafted reduced graphene oxide by a radiation technology. Radiation Physics and Chemistry, 2020, 166, 108504.	2.8	6
49	Performance improvement of poly(acrylic acid) binder-based silicon/graphite composite anodes by room temperature electron beam irradiation-induced crosslinking. Radiation Physics and Chemistry, 2022, 196, 110107.	2.8	6
50	Micropatterning of proteins on ion beamâ€induced poly(acrylic acid)â€grafted polyethylene film. Polymers for Advanced Technologies, 2011, 22, 1989-1992.	3.2	5
51	Preparation and characterization of crosslinked poly(Îμ-caprolactone)/polyhedral oligomeric silsesquioxane nanocomposites by electron beam irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 287, 141-147.	1.4	5
52	Experimental study on physical properties of nanoporous anodic aluminum oxide by proton implantation. Journal of Mechanical Science and Technology, 2014, 28, 3219-3222.	1.5	5
53	Simple and Biocompatible Ion Beam Micropatterning of a Cell-Repellent Polymer on Cell-Adhesive Surfaces to Manipulate Cell Adhesion. Journal of Biomedical Nanotechnology, 2016, 12, 387-393.	1.1	5
54	Preparation of Conductive Carbon Films from Poly(vinyl alcohol) by Chemical Pre-Treatment and Pyrolysis. Journal of Nanoscience and Nanotechnology, 2017, 17, 5481-5484.	0.9	5

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55	Electron beam-based fabrication of crosslinked hydrophilic carbon electrodes and their application for capacitive deionization. RSC Advances, 2019, 9, 9684-9691.	3.6	5
56	Surface Functionalization of Poly(Ethylene Terephthalate) for Biomolecule Immobilization by Ion Implantation. Journal of the Korean Physical Society, 2009, 54, 2071-2075.	0.7	5
57	Functionalization of Carbon Nanotubes by Radiation-Induced Graft Polymerization. Journal of Nanoscience and Nanotechnology, 2009, 9, 7126-9.	0.9	4
58	Cell patterning on a poly(N-vinyl pyrrolidone)-patterned polystyrene substrate by using ion implantation. Journal of Industrial and Engineering Chemistry, 2010, 16, 87-90.	5.8	4
59	Micropatterning of Mammalian Cells on Indium Tin Oxide Substrates Using Ion Implantation. Journal of Biomedical Nanotechnology, 2013, 9, 819-824.	1.1	4
60	Simple and non-toxic fabrication of poly(vinyl alcohol)-patterned polymer surface for the formation of cell patterns. Applied Surface Science, 2014, 316, 179-186.	6.1	4
61	Effect of Cross-Linking Density of Silicone Encapsulant on Sulfur Compound Gas Permeability of Light-Emitting Diode. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 163-167.	2.5	4
62	Surface Enhanced Raman Scattering by Gold Nanoparticle-Decorated Reduced Graphene Oxide on ITO-Coated Glass. Science of Advanced Materials, 2014, 6, 2566-2571.	0.7	4
63	Preparation of Polyacrylonitrile/Graphene Oxide Nanocomposite-Derived Carbon Microstructures by Ion Beam Patterning and Post-Pyrolysis. Science of Advanced Materials, 2016, 8, 1714-1718.	0.7	4
64	Selective cell adhesion on an ion implanted poly(bisphenol A carbonate) film. Journal of Industrial and Engineering Chemistry, 2009, 15, 703-706.	5.8	3
65	Micropatterning of Poly(vinyl pyrrolidone)/Silver Nanoparticle Thin Films by Ion Irradiation. Journal of Nanoscience and Nanotechnology, 2009, 9, 7090-3.	0.9	3
66	Patterning of Polymer Nanocomposite Resists Containing Metal Nanoparticles by Electron Beam Lithography. Journal of Nanoscience and Nanotechnology, 2011, 11, 7390-7393.	0.9	3
67	Electron beam irradiation effects on green biodegradable poly(ϵ-caprolactone) films. Journal of Adhesion Science and Technology, 2013, 27, 1374-1381.	2.6	3
68	Synthesis of a Graphene-Like Nanofilm from Polyacrylonitrile. Journal of Nanoscience and Nanotechnology, 2017, 17, 2503-2507.	0.9	3
69	Reversibility of Electrowetting on Hydrophobic Surfaces and Dielectrics Under Continuous Applied DC Voltage. Journal of Nanoscience and Nanotechnology, 2011, 11, 7132-7136.	0.9	2
70	Patterned Immobilization of Biomolecules on a Polymer Surface Functionalized by Radiation Grafting. Journal of Nanoscience and Nanotechnology, 2011, 11, 4562-4566.	0.9	2
71	Cell patterning on poly(sodium 4-styrenesulfonate)-patterned fluoropolymer substrate. Nuclear Instruments & Methods in Physics Research B, 2013, 313, 54-59.	1.4	2
72	Microfluidic Chips: Active Digital Microfluidic Paper Chips with Inkjetâ€Printed Patterned Electrodes (Adv. Mater. 15/2014). Advanced Materials, 2014, 26, 2286-2286.	21.0	2

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73	Conductive carbon nanosheets prepared from brominated polystyrene through ion beam irradiation and carbonization. Radiation Physics and Chemistry, 2019, 159, 6-11.	2.8	2
74	Cell Patterning on Polystyrene by Ion Implantatio. Journal of the Korean Physical Society, 2008, 52, 884-887.	0.7	2
75	Cell patterning on a glass surface by a mask-assisted ion implantation. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1089-1092.	1.4	1
76	Micropatterning of Polymer-Embedded Metal Nanoparticles by an Ion Beam Contact Lithography. Journal of Nanoscience and Nanotechnology, 2010, 10, 6879-6882.	0.9	1
77	Micropatterning of Cells on Electron-Irradiated Poly(dimethylsiloxane) Surface. Journal of Biomedical Nanotechnology, 2013, 9, 461-466.	1.1	1
78	Analysis of Thickness of a Hydrophobic Fluoropolymer Film Based on Electrowetting. Journal of Biomedical Nanotechnology, 2013, 9, 1250-1253.	1.1	1
79	Fabrication of Wettability-Patterned Surface for Cellular Micropatterning Using Step-Wise Ion Beam Processing. Journal of Nanoscience and Nanotechnology, 2019, 19, 4647-4650.	0.9	1
80	Simple and Mass-Producible Radiolytic Reduction of Graphene Oxide Suspensions in <i>N</i> , <i>N</i> '-Dimethylformamide. Science of Advanced Materials, 2017, 9, 157-160.	0.7	1
81	Preparation of Patterned Polymer Brushes by Radiation-Induced Grafting. Journal of the Korean Physical Society, 2008, 52, 880-883.	0.7	1
82	Electrowetting Technique for Measuring the Thickness of Spin-Coated Hydrophobic Fluoropolymer Films. Science of Advanced Materials, 2015, 7, 869-873.	0.7	1
83	Ion beam fabrication of an antifouling Pluronic F-108 thin film-based microwell bioplatform for highly resolved cell microarrays. Applied Surface Science, 2022, 573, 151551.	6.1	1
84	Patterning of TiO ₂ Particles on Poly(dimethyl siloxane) Films by Using Proton Irradiation and Liquid-Phase Deposition Process. Journal of Nanoscience and Nanotechnology, 2012, 12, 4284-4288.	0.9	0
85	Patterning of Gold Nanoparticles on Fluoropolymer Films by Using Patterned Surface Grafting and Layer-by-Layer Deposition Techniques. ACS Applied Materials & Interfaces, 2013, 5, 8546-8552.	8.0	0
86	The Fabrication of Patterned Gold Nanoparticle Arrays via Selective Ion Irradiation and Plasma Treatment. Journal of Nanoscience and Nanotechnology, 2014, 14, 6158-6161.	0.9	0
87	Effects of Radiation on PS-b-PMMA Block Copolymer Micelles. Porrime, 2016, 40, 622.	0.2	0