

# Sung Min Kang

## List of Publications by Year in descending order

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65  
papers

3,864  
citations

257101

24  
h-index

118652

62  
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67  
all docs

67  
docs citations

67  
times ranked

5279  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Multipurpose Surface Functionalization by Adhesive Catecholamine. <i>Advanced Functional Materials</i> , 2012, 22, 2949-2955.	7.8	436
2	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <i>Advanced Functional Materials</i> , 2011, 21, 108-112.	7.8	409
3	One-Step Modification of Superhydrophobic Surfaces by a Mussel-Inspired Polymer Coating. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9401-9404.	7.2	408
4	Mussel-Inspired Encapsulation and Functionalization of Individual Yeast Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2795-2797.	6.6	378
5	Norepinephrine: Material-Independent, Multifunctional Surface Modification Reagent. <i>Journal of the American Chemical Society</i> , 2009, 131, 13224-13225.	6.6	298
6	Mussel- and Diatom-Inspired Silica Coating on Separators Yields Improved Power and Safety in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3481-3485.	3.2	185
7	Formation of Thermo-responsive Gold Nanoparticle/PNIPAAm Hybrids by Surface-Initiated, Atom Transfer Radical Polymerization in Aqueous Media. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1941-1946.	1.1	153
8	Versatile, Tannic Acid-Mediated Surface PEGylation for Marine Antifouling Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6412-6416.	4.0	140
9	Polydopamine Microfluidic System toward a Two-Dimensional, Gravity-Driven Mixing Device. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6126-6130.	7.2	123
10	Enhancement of Blood Compatibility of Poly(urethane) Substrates by Mussel-Inspired Adhesive Heparin Coating. <i>Bioconjugate Chemistry</i> , 2011, 22, 1264-1269.	1.8	116
11	Cytocompatible Polymer Grafting from Individual Living Cells by Atom Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15306-15309.	7.2	114
12	Pyrogallol 2-Aminoethane: A Plant Flavonoid-Inspired Molecule for Material-Independent Surface Chemistry. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400113.	1.9	104
13	Sprayable Ultrafast Polydopamine Surface Modifications. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500857.	1.9	99
14	Mussel-Inspired Approach to Constructing Robust Multilayered Alginate Films for Antibacterial Applications. <i>Advanced Functional Materials</i> , 2016, 26, 4099-4105.	7.8	69
15	Facile Construction of Robust Multilayered PEG Films on Polydopamine-Coated Solid Substrates for Marine Antifouling Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7626-7631.	4.0	63
16	Oxidation-Mediated, Zwitterionic Polydopamine Coatings for Marine Antifouling Applications. <i>Langmuir</i> , 2019, 35, 1227-1234.	1.6	59
17	Stability-enhanced polydopamine coatings on solid substrates by iron(III) coordination. <i>Progress in Organic Coatings</i> , 2014, 77, 1336-1339.	1.9	58
18	Reversible Layer-by-Layer Deposition on Solid Substrates Inspired by Mussel Byssus Cuticle. <i>Chemistry - an Asian Journal</i> , 2014, 9, 63-66.	1.7	57

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19	Biomimetic approach to the formation of gold nanoparticle/silica core/shell structures and subsequent bioconjugation. <i>Nanotechnology</i> , 2006, 17, 4719-4725.	1.3	44
20	One-step functionalization of zwitterionic poly[(3-(methacryloylamino)propyl)dimethyl(3-sulfopropyl)ammonium hydroxide] surfaces by metal-phenol coating. <i>Chemical Communications</i> , 2015, 51, 5340-5342.	2.2	37
21	Bioconjugation of poly(poly(ethylene glycol) methacrylate)-coated iron oxide magnetic nanoparticles for magnetic capture of target proteins. <i>Macromolecular Research</i> , 2009, 17, 259-264.	1.0	33
22	Osteoconductive conjugation of bone morphogenetic protein-2 onto titanium/titanium oxide surfaces coated with non-biofouling poly(poly(ethylene glycol) methacrylate). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 385-389.	2.5	33
23	Non-Biofouling Polymeric Thin Films on Solid Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1231-1252.	0.9	32
24	Multipurpose Antifouling Coating of Solid Surfaces with the Marine-Derived Polymer Fucoidan. <i>Macromolecular Bioscience</i> , 2018, 18, e1800137.	2.1	27
25	Artificial Spores: Cytocompatible Coating of Living Cells with Plant-Derived Pyrogallol. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3183-3187.	1.7	25
26	Formation of carbon nanotube/glucose-carrying polymer hybrids by surface-initiated, atom transfer radical polymerization. <i>Macromolecular Research</i> , 2005, 13, 356-361.	1.0	20
27	Chemically stable poly(norepinephrine) coatings on solid substrates by post-oxidation. <i>Polymer Degradation and Stability</i> , 2013, 98, 1271-1273.	2.7	19
28	Red Algae-Derived Carrageenan Coatings for Marine Antifouling Applications. <i>Biomacromolecules</i> , 2020, 21, 5086-5092.	2.6	19
29	Binding behaviors of protein on spatially controlled poly[oligo(ethylene glycol) methacrylate] brushes grafted from mixed self-assembled monolayers on gold. <i>Chemical Communications</i> , 2014, 50, 5291.	2.2	16
30	Formation of Turmeric-Based Thin Films: Universal, Transparent Coatings. <i>Langmuir</i> , 2017, 33, 3639-3646.	1.6	16
31	Polymeric Functionalization of Cyclic Olefin Copolymer Surfaces with Nonbiofouling Poly(oligo(Ethylene Glycol) Methacrylate). <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 568-571.	1.3	15
32	Coordination-Driven Surface Zwitteration for Antibacterial and Antifog Applications. <i>Langmuir</i> , 2022, 38, 1550-1559.	1.6	15
33	Adhesive heparin coating for marine antifouling applications. <i>Macromolecular Research</i> , 2016, 24, 645-649.	1.0	14
34	Zr(IV) Coordination Chemistry for Cell-Repellent Alginate Coatings: The Effect of Surface Functional Groups. <i>Langmuir</i> , 2020, 36, 5192-5197.	1.6	14
35	Specific binding of streptavidin onto the nonbiofouling titanium/titanium oxide surface through surface-initiated, atom transfer radical polymerization and bioconjugation of biotin. <i>Macromolecular Research</i> , 2009, 17, 174-180.	1.0	12
36	Biomimetic Approach to the Formation of Magnetic Nanoparticle/Silica Core/Shell Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5347-5350.	0.9	11

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37	Cytocompatible Polymer Grafting from Individual Living Cells by Atom Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2016, 128, 15532-15535.	1.6	11
38	Antibacterial Film Formation through Iron(III) Complexation and Oxidation-Induced Cross-Linking of <i>OEG</i> -DOPA. <i>Langmuir</i> , 2019, 35, 14465-14472.	1.6	10
39	Mussel-Inspired, One-Step Thiol Functionalization of Solid Surfaces. <i>Langmuir</i> , 2020, 36, 1608-1614.	1.6	10
40	Catechol-conjugated Dextran for Marine Antifouling Applications: The Adverse Effects of High Catechol Content. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 1068-1072.	1.0	9
41	Systematic Study of Functionalizable, Non-Biofouling Agarose Films with Protein and Cellular Patterns on Glass Slides. <i>Chemistry - an Asian Journal</i> , 2017, 12, 846-852.	1.7	8
42	4-(3-Aminopropyl)-benzene-1,2-diol: An Improved Material-Independent Surface-Coating Reagent Compared to Dopamine. <i>Langmuir</i> , 2019, 35, 6898-6904.	1.6	8
43	Spray Coating of and Solid Substrates Using a Sulfated Polysaccharide for Marine Antifouling Applications. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100423.	1.7	8
44	Surface Modification of Highly Ordered Pyrolytic Graphite (HOPG) by a Mussel-Inspired Poly(norepinephrine) Coating: Characterizations and Cell Adhesion Test. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 960-962.	1.0	8
45	Marine Antifouling Surface Coatings Using Tannic Acid and Poly( <i>N</i> -vinylpyrrolidone). <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 404-407.	1.0	7
46	Ultralow fouling of fibrinogen and human platelets on ulvan multilayer-coated solid surfaces. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 228-233.	2.9	7
47	Control of Cell Adhesion on a Superhydrophobic Surface by Polydopamine Coating. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 2525-2527.	1.0	7
48	Development of Freeze-resistant Aluminum Surfaces by Tannic Acid Coating and Subsequent Immobilization of Antifreeze Proteins. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 559-562.	1.0	5
49	Formation of Zirconium(IV)-Heparin Complex Multilayers on Solid Surfaces for Long-Lasting Antiplatelet Application. <i>Macromolecular Bioscience</i> , 2019, 19, 1900154.	2.1	5
50	Plant-inspired quercetin thin films: universal coatings and their postfunctionalization for non-biofouling applications. <i>New Journal of Chemistry</i> , 2021, 45, 7533-7541.	1.4	5
51	Effect of <i>N</i> -Methylation on Dopamine Surface Chemistry. <i>Langmuir</i> , 2022, 38, 6404-6410.	1.6	5
52	Enhanced Adhesion of Marine Diatoms on a Solid Substrate by Tannic Acid Coating. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 9-10.	1.0	4
53	Superhydrophilic Conversion of Stainless Steel Surfaces by Biomimetic Silica Coating and Its Effect on Marine Fouling. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 972-975.	1.0	4
54	Effect of Catechol Content in Catechol-Conjugated Dextrans on Antiplatelet Performance. <i>Polymers</i> , 2017, 9, 376.	2.0	4

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55	Marine Fouling Resistance of Ulvanê-grafted Solid Surface. Bulletin of the Korean Chemical Society, 2018, 39, 1459-1462.	1.0	4
56	Photochemical Control of Polydopamine Coating in an Aprotic Organic Solvent. Asian Journal of Organic Chemistry, 2019, 8, 1610-1612.	1.3	4
57	Enhanced Adhesion of Fish Ovarian Germline Stem Cells on Solid Surfaces by Mussel-Inspired Polymer Coating. Marine Drugs, 2019, 17, 11.	2.2	3
58	Universal Surface Coating with a Non-Phenolic Molecule, Sulfonated Pyrene. Langmuir, 2021, 37, 7227-7236.	1.6	3
59	Mussel- and Diatom-Inspired Micropattern Generation of Silica on a Solid Substrate. Bulletin of the Korean Chemical Society, 2013, 34, 353-354.	1.0	3
60	Coordination-driven antifouling spray coating using a sulfated polysaccharide Fucoidan. Progress in Organic Coatings, 2022, 169, 106916.	1.9	3
61	Effect of Molecular Weights on Metalê-Mediated Grafting of Sulfobetaine Polymers onto Solid Surfaces for Nonê-Biofouling Applications. Macromolecular Bioscience, 2022, 22, .	2.1	3
62	Lubrication of Stainless Steel Surfaces for Marine Antifouling Applications. Bulletin of the Korean Chemical Society, 2016, 37, 2087-2090.	1.0	1
63	Modulation of Heterotypic and Homotypic Cellê-Cell Interactions via Zwitterionic Lipid Masks. Advanced Healthcare Materials, 2017, 6, 1700063.	3.9	1
64	Facile and Robust Anchoring of CaCO <sub>3</sub> Crystals on Solid Substrates by Tannic Acid Coating. Bulletin of the Korean Chemical Society, 2018, 39, 691-694.	1.0	0
65	Fe(III)/Polydopamine-Mediated Capture and Release of Catecholic Compounds. Bulletin of the Korean Chemical Society, 2014, 35, 2828-2830.	1.0	0