Yoon Sung Nam

List of Publications by Year
in descending order

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122 papers	5,470 citations	101543 36 h-index	88630 70 g-index
127 all docs	127 docs citations	127 times ranked	8455 citing authors

#	Article	IF	Citations
1	Porous biodegradable polymeric scaffolds prepared by thermally induced phase separation. Journal of Biomedical Materials Research Part B, 1999, 47, 8-17.	3.1	573
2	A novel fabrication method of macroporous biodegradable polymer scaffolds using gas foaming salt as a porogen additive. Journal of Biomedical Materials Research Part B, 2000, 53, 1-7.	3.1	507
3	Biodegradable polymeric microcellular foams by modified thermally induced phase separation method. Biomaterials, 1999, 20, 1783-1790.	11.4	370
4	Biologically templated photocatalytic nanostructures for sustained light-driven water oxidation. Nature Nanotechnology, 2010, 5, 340-344.	31.5	221
5	Virus-Directed Design of a Flexible BaTiO₃ Nanogenerator. ACS Nano, 2013, 7, 11016-11025.	14.6	208
6	Virus-Templated Assembly of Porphyrins into Light-Harvesting Nanoantennae. Journal of the American Chemical Society, 2010, 132, 1462-1463.	13.7	181
7	A new preparation method for protein loaded poly(d,l-lactic-co-glycolic acid) microspheres and protein release mechanism study. Journal of Controlled Release, 1998, 55, 181-191.	9.9	165
8	Polydopamine Microfluidic System toward a Twoâ€Ðimensional, Gravityâ€Ðriven Mixing Device. Angewandte Chemie - International Edition, 2012, 51, 6126-6130.	13.8	123
9	Virus-templated Au and Auâ€“Pt coreâ€“shell nanowires and their electrocatalytic activities for fuel cell applications. Energy and Environmental Science, 2012, 5, 8328.	30.8	119
10	New micelle-like polymer aggregates made from PEIâ€“PLGA diblock copolymers: micellar characteristics and cellular uptake. Biomaterials, 2003, 24, 2053-2059.	11.4	114
11	Silverâ€Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. Macromolecular Materials and Engineering, 2013, 298, 547-554.	3.6	103
12	Functional Nanostructures for Effective Delivery of Small Interfering RNA Therapeutics. Theranostics, 2014, 4, 1211-1232.	10.0	96
13	Optically Traceable Solid Lipid Nanoparticles Loaded with siRNA and Paclitaxel for Synergistic Chemotherapy with In situ Imaging. Advanced Healthcare Materials, 2013, 2, 576-584.	7.6	95
14	Surface immobilization of galactose onto aliphatic biodegradable polymers for hepatocyte culture. Biotechnology and Bioengineering, 2002, 78, 1-10.	3.3	86
15	Fabrication of a Micro-omnifluidic Device by Omniphilic/Omniphobic Patterning on Nanostructured Surfaces. ACS Nano, 2014, 8, 9016-9024.	14.6	78
16	Adhesion behaviours of hepatocytes cultured onto biodegradable polymer surface modified by alkali hydrolysis process. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 1145-1158.	3.5	77
17	Bioinspired Templating Synthesis of Metalâ€“Polymer Hybrid Nanostructures within 3D Electrospun Nanofibers. ACS Applied Materials & Interfaces, 2013, 5, 6381-6390.	8.0	69
18	Preparation and characterization of coenzyme Q10-loaded PMMA nanoparticles by a new emulsification process based on microfluidization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 210, 95-104.	4.7	67

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19	Dendrimeric siRNA for Efficient Gene Silencing. Angewandte Chemie - International Edition, 2015, 54, 6740-6744.	13.8	59
20	Conjugation of drug to poly(?,?-lactic-co-glycolic acid) for controlled release from biodegradable microspheres. Journal of Controlled Release, 1999, 57, 269-280.	9.9	57
21	Small-Interfering RNA (siRNA)-Based Functional Micro- and Nanostructures for Efficient and Selective Gene Silencing. Accounts of Chemical Research, 2012, 45, 1014-1025.	15.6	57
22	Plasmonically-assisted nanoarchitectures for solar water splitting: Obstacles and breakthroughs. Nano Today, 2017, 16, 61-81.	11.9	57
23	Enhanced Photocatalytic Activity using Layerâ€byâ€Layer Electrospun Constructs for Water Remediation. Advanced Functional Materials, 2010, 20, 2424-2429.	14.9	54
24	Selfâ€Assembly of Metalloporphyrins into Lightâ€Harvesting Peptide Nanofiber Hydrogels for Solar Water Oxidation. Small, 2014, 10, 1272-1277.	10.0	53
25	ROS-induced biodegradable polythioketal nanoparticles for intracellular delivery of anti-cancer therapeutics. Journal of Industrial and Engineering Chemistry, 2015, 21, 1137-1142.	5.8	50
26	Microcapsules Containing pH-Responsive, Fluorescent Polymer-Integrated MoS₂: An Effective Platform for in Situ pH Sensing and Photothermal Heating. ACS Applied Materials & Interfaces, 2018, 10, 9023-9031.	8.0	50
27	Virus-templated iridium oxideâ€“gold hybrid nanowires for electrochromic application. Nanoscale, 2012, 4, 3405.	5.6	49
28	Tocopheryl acetate nanoemulsions stabilized with lipidâ€“polymer hybrid emulsifiers for effective skin delivery. Colloids and Surfaces B: Biointerfaces, 2012, 94, 51-57.	5.0	49
29	Genetically Programmed Clusters of Gold Nanoparticles for Cancer Cell-Targeted Photothermal Therapy. ACS Applied Materials & Interfaces, 2015, 7, 22578-22586.	8.0	49
30	Protein-resistant, reductively dissociable polyplexes for inÂvivo systemic delivery and tumor-targeting of siRNA. Biomaterials, 2013, 34, 2370-2379.	11.4	46
31	Spontaneous linker-free binding of polyoxometalates on nitrogen-doped carbon nanotubes for efficient water oxidation. Journal of Materials Chemistry A, 2017, 5, 1941-1947.	10.3	46
32	Reductively Dissociable siRNAâ€Polymer Hybrid Nanogels for Efficient Targeted Gene Silencing. Advanced Functional Materials, 2013, 23, 316-322.	14.9	44
33	Intracellular delivery of paclitaxel using oil-free, shell cross-linked HSA â€“ Multi-armed PEG nanocapsules. Biomaterials, 2011, 32, 8635-8644.	11.4	43
34	Stabilized calcium phosphate nano-aggregates using a dopa-chitosan conjugate for gene delivery. International Journal of Pharmaceutics, 2013, 445, 196-202.	5.2	43
35	Bioinspired Design of an Immobilization Interface for Highly Stable, Recyclable Nanosized Catalysts. ACS Applied Materials & Interfaces, 2015, 7, 14415-14422.	8.0	42
36	Nanosized Emulsions Stabilized by Semisolid Polymer Interphase. Langmuir, 2010, 26, 13038-13043.	3.5	38

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37	Cellâ€repellant Dextran Coatings of Porous Titania Using Mussel Adhesion Chemistry. Macromolecular Bioscience, 2013, 13, 1511-1519.	4.1	36
38	Role of Ordered Ni Atoms in Li Layers for Liâ€Rich Layered Cathode Materials. Advanced Functional Materials, 2017, 27, 1700982.	14.9	36
39	Lysozyme microencapsulation within biodegradable PLGA microspheres: Urea effect on protein release and stability. Biotechnology and Bioengineering, 2000, 70, 270-277.	3.3	35
40	Layer-by-layer siRNA/poly(L-lysine) Multilayers on Polydopamine-coated Surface for Efficient Cell Adhesion and Gene Silencing. Scientific Reports, 2018, 8, 7738.	3.3	35
41	Crystalline IrO2-decorated TiO2 nanofiber scaffolds for robust and sustainable solar water oxidation. Journal of Materials Chemistry A, 2014, 2, 5610.	10.3	34
42	Prolonged gene silencing by siRNA/chitosan-g-deoxycholic acid polyplexes loaded within biodegradable polymer nanoparticles. Journal of Controlled Release, 2012, 162, 407-413.	9.9	33
43	Mussel-inspired modification of dextran for protein-resistant coatings of titanium oxide. Carbohydrate Polymers, 2013, 97, 753-757.	10.2	33
44	Highly luminescent, off-stoichiometric Cu_xIn_yS₂/ZnS quantum dots for near-infrared fluorescence bio-imaging. RSC Advances, 2015, 5, 43449-43455.	3.6	33
45	Tanninâ€“Titanium Oxide Multilayer as a Photochemically Suppressed Ultraviolet Filter. ACS Applied Materials & Interfaces, 2018, 10, 27344-27354.	8.0	32
46	Title is missing!. Biotechnology Letters, 2002, 24, 2093-2098.	2.2	31
47	Protein loaded biodegradable microspheres based on PLGA-protein bioconjugates. Journal of Microencapsulation, 1999, 16, 625-637.	2.8	30
48	Bioinspired Synthesis of Mesoporous Gold-silica Hybrid Microspheres as Recyclable Colloidal SERS Substrates. Scientific Reports, 2017, 7, 14728.	3.3	30
49	Human three-dimensional in vitro model of hepatic zonation to predict zonal hepatotoxicity. Journal of Biological Engineering, 2019, 13, 22.	4.7	30
50	In situ functionalization of highly porous polymer microspheres with silver nanoparticles via bio-inspired chemistry. RSC Advances, 2014, 4, 55604-55609.	3.6	29
51	Synthesis of efficient near-infrared-emitting CuInS₂/ZnS quantum dots by inhibiting cation-exchange for bio application. RSC Advances, 2017, 7, 10675-10682.	3.6	29
52	Photochemically Enhanced Selective Adsorption of Gold Ions on Tannin-Coated Porous Polymer Microspheres. ACS Applied Materials & Interfaces, 2019, 11, 21915-21925.	8.0	29
53	Controlling surface defects of non-stoichiometric copper-indium-sulfide quantum dots. Journal of Colloid and Interface Science, 2015, 460, 173-180.	9.4	27
54	Radio-opaque theranostic nanoemulsions with synergistic anti-cancer activity of paclitaxel and Bcl-2 siRNA. RSC Advances, 2013, 3, 14642.	3.6	26

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55	Low-Density Lipoprotein-Mimicking Nanoparticles for Tumor-Targeted Theranostic Applications. Small, 2015, 11, 222-231.	10.0	25
56	Multilayered Plasmonic Heterostructure of Gold and Titania Nanoparticles for Solar Fuel Production. Scientific Reports, 2018, 8, 10464.	3.3	25
57	Template Dissolution Interfacial Patterning of Single Colloids for Nanoelectrochemistry and Nanosensing. ACS Nano, 2020, 14, 17693-17703.	14.6	25
58	Direct Z-Scheme Tanninâ€“TiO₂ Heterostructure for Photocatalytic Gold Ion Recovery from Electronic Waste. ACS Sustainable Chemistry and Engineering, 2020, 8, 7359-7370.	6.7	24
59	Protein release microparticles based on the blend of poly(d,l-lactic-co-glycolic acid) and oligo-ethylene glycol grafted poly(l-lactide). Journal of Controlled Release, 2001, 76, 275-284.	9.9	23
60	Serum-stable quantum dot--protein hybrid nanocapsules for optical bio-imaging. Nanotechnology, 2014, 25, 175702.	2.6	22
61	Morphological Evolution of Gold Nanoparticles into Nanodendrites Using Catechol-Grafted Polymer Templates. ACS Omega, 2018, 3, 6683-6691.	3.5	21
62	Characterization, stability, and pharmacokinetics of sibutramine/Î²-cyclodextrin inclusion complex. Journal of Industrial and Engineering Chemistry, 2012, 18, 1412-1417.	5.8	19
63	Thermally controlled wettability of a nanoporous membrane grafted with catechol-tethered poly(N-isopropylacrylamide). Chemical Communications, 2012, 48, 9227.	4.1	19
64	Cancer-targeted reactive oxygen species-degradable polymer nanoparticles for near infrared light-induced drug release. Journal of Materials Chemistry B, 2018, 6, 7737-7749.	5.8	19
65	A ruthenium-based plasmonic hybrid photocatalyst for aqueous carbon dioxide conversion with a high reaction rate and selectivity. Journal of Materials Chemistry A, 2019, 7, 17254-17260.	10.3	19
66	Subnanomolar FRET-Based DNA Assay Using Thermally Stable Phosphorothioated DNA-Functionalized Quantum Dots. ACS Applied Materials & Interfaces, 2019, 11, 33525-33534.	8.0	18
67	Nitrogenâ€Dopantâ€Induced Organicâ€“Inorganic Hybrid Perovskite Crystal Growth on Carbon Nanotubes. Advanced Functional Materials, 2019, 29, 1902489.	14.9	18
68	Vitamin A microencapsulation within poly(methyl methacrylate)-g-polyethylenimine microspheres: Localized proton buffering effect on vitamin A stability. Journal of Applied Polymer Science, 2004, 92, 517-522.	2.6	17
69	Multiscale structural analysis of mouse lingual myoarchitecture employing diffusion spectrum magnetic resonance imaging and multiphoton microscopy. Journal of Biomedical Optics, 2008, 13, 064005.	2.6	17
70	On-surface synthesis of metal nanostructures on solid and hydrated polymer nanofibers coated with polydopamine. Journal of Industrial and Engineering Chemistry, 2015, 30, 220-224.	5.8	16
71	Low-power and low-drug-dose photodynamic chemotherapy via the breakdown of tumor-targeted micelles by reactive oxygen species. Journal of Controlled Release, 2018, 286, 240-253.	9.9	16
72	Short DNA-catalyzed formation of quantum dot-DNA hydrogel for enzyme-free femtomolar specific DNA assay. Biosensors and Bioelectronics, 2021, 182, 113110.	10.1	16

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73	Integrated one- and two-photon imaging platform reveals clonal expansion as a major driver of mutation load. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10314-10319.	7.1	15
74	Flame-retardant, flexible vermiculiteâ€“polymer hybrid film. RSC Advances, 2015, 5, 61768-61774.	3.6	15
75	Proteinâ€“quantum dot nanohybrids for bioanalytical applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 178-190.	6.1	14
76	Virusâ€Templated Selfâ€Mineralization of Ligandâ€Free Colloidal Palladium Nanostructures for High Surface Activity and Stability. Advanced Functional Materials, 2017, 27, 1703262.	14.9	14
77	DNA-mediated self-assembly of taste cells and neurons for taste signal transmission. Biomaterials Science, 2018, 6, 3388-3396.	5.4	14
78	Determination of Zeta Potentials of Polymeric Nanoparticles by the Conductivity Variation Method. Journal of Colloid and Interface Science, 2002, 255, 352-355.	9.4	13
79	Tannin-mediated assembly of goldâ€“titanium oxide hybrid nanoparticles for plasmonic photochemical applications. Journal of Industrial and Engineering Chemistry, 2018, 63, 420-425.	5.8	13
80	Color-spectrum-broadened ductile cellulose films for vapor-pH-responsive colorimetric sensors. Journal of Industrial and Engineering Chemistry, 2019, 80, 590-596.	5.8	13
81	Plasmonic Heterostructure Functionalized with a Carbene-Linked Molecular Catalyst for Sustainable and Selective Carbon Dioxide Reduction. ACS Applied Materials & Interfaces, 2020, 12, 33817-33826.	8.0	13
82	Flexible Fibrous Piezoelectric Sensors on Printed Silver Electrodes. IEEE Nanotechnology Magazine, 2014, 13, 709-713.	2.0	12
83	Polyglycerolated nanocarriers with increased ligand multivalency for enhanced in vivo therapeutic efficacy of paclitaxel. Biomaterials, 2017, 145, 223-232.	11.4	12
84	Cationic lipid binding control in DNA based biopolymer and its impacts on optical and thermo-optic properties of thin solid films. Optical Materials Express, 2017, 7, 3796.	3.0	12
85	Metal-polyphenol Complexes as Versatile Building Blocks for Functional Biomaterials. Biotechnology and Bioprocess Engineering, 2021, 26, 689-707.	2.6	12
86	Chemical immobilization of retinoic acid within poly(?-caprolactone) nanoparticles based on drug-polymer bioconjugates. Journal of Applied Polymer Science, 2003, 89, 1631-1637.	2.6	11
87	Silicone oil emulsions stabilized by semi-solid nanostructures entrapped at the interface. Journal of Colloid and Interface Science, 2010, 351, 102-107.	9.4	10
88	DNA Lipoplexâ€Based Lightâ€Harvesting Antennae. Advanced Functional Materials, 2017, 27, 1700212.	14.9	10
89	Lipiodol nanoemulsions stabilized with polyglycerol-polycaprolactone block copolymers for theranostic applications. Biomaterials Research, 2017, 21, 21.	6.9	10
90	Gold Binding Peptide Identified from Microfluidic Biopanning: An Experimental and Molecular Dynamics Study. Langmuir, 2019, 35, 522-528.	3.5	10

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91	Light-activated polydopamine coatings for efficient metal recovery from electronic waste. Separation and Purification Technology, 2021, 254, 117674.	7.9	10
92	Protein-induced metamorphosis of unilamellar lipid vesicles to multilamellar hybrid vesicles. Journal of Controlled Release, 2021, 331, 187-197.	9.9	10
93	Stimuliâ€Responsive Neuronal Networking via Removable Alginate Masks. Advanced Biology, 2018, 2, 1800030.	3.0	9
94	Polyglycerol-poly(Îµ-caprolactone) block copolymer as a new semi-solid polymeric emulsifier to stabilize O/W nanoemulsions. Colloid and Polymer Science, 2015, 293, 2949-2956.	2.1	8
95	Reducible Dimeric Conjugates of Small Internally Segment Interfering RNA for Efficient Gene Silencing. Macromolecular Bioscience, 2016, 16, 1442-1449.	4.1	8
96	Elution dynamics of M13 bacteriophage bound to streptavidin immobilized in a microfluidic channel. Biochip Journal, 2016, 10, 48-55.	4.9	8
97	Hydrogel Skin-Covered Neurons Self-Assembled with Gustatory Cells for Selective Taste Stimulation. ACS Omega, 2019, 4, 12393-12401.	3.5	8
98	Directed Nanoscale Self-Assembly of Natural Photosystems on Nitrogen-Doped Carbon Nanotubes for Solar-Energy Harvesting. ACS Applied Bio Materials, 2019, 2, 2109-2115.	4.6	8
99	Plastic-free silica-titania-polyphenol heterojunction hybrids for efficient UV-to-blue light blocking and suppressed photochemical reactivity. Chemical Engineering Journal, 2022, 431, 133790.	12.7	8
100	Quantitative morphometric measurements using site selective image cytometry of intact tissue. Journal of the Royal Society Interface, 2009, 6, S45-57.	3.4	7
101	Genomic and proteomic analyses of 1,3-dinitrobenzene-induced testicular toxicity in Sprague–Dawley rats. Reproductive Toxicology, 2014, 43, 45-55.	2.9	7
102	Fabrication and stabilization of nanoscale emulsions by formation of a thin polymer membrane at the oil–water interface. RSC Advances, 2015, 5, 46276-46281.	3.6	7
103	Gold–Titanium Dioxide Half-Dome Heterostructures for Plasmonic Hydrogen Evolution. ACS Applied Energy Materials, 0, , .	5.1	6
104	Spontaneous Registration of Sub-10 nm Features Based on Subzero Celsius Spin-Casting of Self-Assembling Building Blocks Directed by Chemically Encoded Surfaces. ACS Nano, 2018, 12, 8224-8233.	14.6	6
105	Robust Biocatalysts Displayed on Crystalline Protein–Layered Cells for Efficient and Sustainable Hydration of Carbon Dioxide. Advanced Functional Materials, 2021, 31, 2102497.	14.9	6
106	Small Interfering <scp>RNA</scp> Nunchucks with a Hydrophobic Linker for Efficient Intracellular Delivery. Macromolecular Bioscience, 2014, 14, 195-201.	4.1	5
107	Stable nanoemulsions prepared via interfacial solidification of amphiphilic polyether–polyester block copolymers. Journal of Colloid and Interface Science, 2015, 443, 197-205.	9.4	4
108	Temperature–responsive Hydrogels Synthesized from Photo–Polymerizable Poloxamer Macromers for Topical Skin Moisturizing. Bulletin of the Korean Chemical Society, 2016, 37, 1331-1336.	1.9	4

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109	Thinâ€Layered Cobaltâ€Based Catalysts on Stainlessâ€Steel Microfibers for the Efficient Electrolysis of Water. ChemCatChem, 2017, 9, 3814-3820.	3.7	4
110	Development of fluorescence-conjugated islet-homing peptide using biopanning for targeted optical imaging of pancreatic islet. Journal of Industrial and Engineering Chemistry, 2017, 45, 404-411.	5.8	4
111	Paclitaxel-induced formation of 3D nanocrystal superlattices within injectable protein-based hybrid nanoparticles. Chemical Communications, 2018, 54, 11586-11589.	4.1	4
112	Interstitial polydopamine layer stabilizing catalysts/electrode interface for sustainable water oxidation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126121.	4.7	4
113	Plasmon-modulated fluorescence nanoprobes for enzyme-free DNA detection via target signal enhancement and off-target quenching. Biosensors and Bioelectronics, 2022, 210, 114288.	10.1	4
114	Self-assembled, pH-sensitive retinoate nanostructures ionically complexed with PEG-grafted cationic polyelectrolytes. Colloid and Polymer Science, 2012, 290, 839-845.	2.1	3
115	Importance of crystallinity of anchoring block of semi-solid amphiphilic triblock copolymers in stabilization of silicone nanoemulsions. Journal of Colloid and Interface Science, 2017, 503, 39-46.	9.4	3
116	Image Cytometric Analysis of Algal Spores for Evaluation of Antifouling Activities of Biocidal Agents. Scientific Reports, 2017, 7, 6908.	3.3	3
117	Conjugationâ€Free Multilamellar Proteinâ€Lipid Hybrid Vesicles for Multifaceted Immune Responses. Advanced Healthcare Materials, 2021, 10, 2101239.	7.6	3
118	Imaging: Low-Density Lipoprotein-Mimicking Nanoparticles for Tumor-Targeted Theranostic Applications (Small 2/2015). Small, 2015, 11, 146-146.	10.0	2
119	Tailored layer-by-layer deposition of silica reinforced polyelectrolyte layers on polymer microcapsules for enhanced antioxidant cargo retention. Journal of Industrial and Engineering Chemistry, 2018, 58, 80-86.	5.8	2
120	Artificial Taste Buds: Bioorthogonally Ligated Gustatoryâ€“Neuronal Multicellular Hybrids Enabling Intercellular Taste Signal Transmission. ACS Biomaterials Science and Engineering, 2021, 7, 3783-3792.	5.2	1
121	Multiscale Functional Metal Architectures by Antibodyâ€Guided Metallization of Specific Protein Assemblies in Ex Vivo Multicellular Organisms. Advanced Materials, 2022, 34, .	21.0	1
122	Flexible Fibrous Piezo-Electric Sensor on Printed Silver Electrode. Materials Research Society Symposia Proceedings, 2014, 1685, 64.	0.1	0