Yoon Sung Nam

List of Publications by Year in Descending Order

122 papers	4,679 citations	35 h-index	66 g-index
127 ext. papers	5,062 ext. citations	9 avg, IF	5.65 L-index

#	Paper	IF	Citations
122	Plasmon-modulated fluorescence nanoprobes for enzyme-free DNA detection via target signal enhancement and off-target quenching.. *Biosensors and Bioelectronics*, **2022**, 210, 114288	11.8	
121	Metal-polyphenol Complexes as Versatile Building Blocks for Functional Biomaterials. *Biotechnology and Bioprocess Engineering*, **2021**, 26, 689-707	3.1	0
120	Plastic-free silica-titania-polyphenol heterojunction hybrids for efficient UV-to-blue light blocking and suppressed photochemical reactivity. *Chemical Engineering Journal*, **2021**, 431, 133790	14.7	1
119	Interstitial polydopamine layer stabilizing catalysts/electrode interface for sustainable water oxidation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 614, 126121	5.1	1
118	Robust Biocatalysts Displayed on Crystalline Protein-Layered Cells for Efficient and Sustainable Hydration of Carbon Dioxide. *Advanced Functional Materials*, **2021**, 31, 2102497	15.6	3
117	Short DNA-catalyzed formation of quantum dot-DNA hydrogel for enzyme-free femtomolar specific DNA assay. *Biosensors and Bioelectronics*, **2021**, 182, 113110	11.8	9
116	Light-activated polydopamine coatings for efficient metal recovery from electronic waste. *Separation and Purification Technology*, **2021**, 254, 117674	8.3	4
115	Protein-induced metamorphosis of unilamellar lipid vesicles to multilamellar hybrid vesicles. *Journal of Controlled Release*, **2021**, 331, 187-197	11.7	2
114	Artificial Taste Buds: Bioorthogonally Ligated Gustatory-Neuronal Multicellular Hybrids Enabling Intercellular Taste Signal Transmission. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3783-3792	5.5	0
113	Conjugation-Free Multilamellar Protein-Lipid Hybrid Vesicles for Multifaceted Immune Responses. *Advanced Healthcare Materials*, **2021**, 10, e2101239	10.1	0
112	Plasmonic Heterostructure Functionalized with a Carbene-Linked Molecular Catalyst for Sustainable and Selective Carbon Dioxide Reduction. *ACS Applied Materials & Interfaces*, **2020**, 12, 33817-33826	9.5	7
111	Direct Z-Scheme Tannin□TiO2 Heterostructure for Photocatalytic Gold Ion Recovery from Electronic Waste. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7359-7370	8.3	10
110	Template Dissolution Interfacial Patterning of Single Colloids for Nanoelectrochemistry and Nanosensing. *ACS Nano*, **2020**,	16.7	13
109	Subnanomolar FRET-Based DNA Assay Using Thermally Stable Phosphorothioated DNA-Functionalized Quantum Dots. *ACS Applied Materials & Interfaces*, **2019**, 11, 33525-33534	9.5	10
108	Color-spectrum-broadened ductile cellulose films for vapor-pH-responsive colorimetric sensors. *Journal of Industrial and Engineering Chemistry*, **2019**, 80, 590-596	6.3	9
107	Nitrogen-Dopant-Induced Organic□Inorganic Hybrid Perovskite Crystal Growth on Carbon Nanotubes. *Advanced Functional Materials*, **2019**, 29, 1902489	15.6	11
106	Photochemically Enhanced Selective Adsorption of Gold Ions on Tannin-Coated Porous Polymer Microspheres. *ACS Applied Materials & Interfaces*, **2019**, 11, 21915-21925	9.5	17

105	Human three-dimensional in vitro model of hepatic zonation to predict zonal hepatotoxicity. *Journal of Biological Engineering*, **2019**, 13, 22	6.3	21
104	Directed Nanoscale Self-Assembly of Natural Photosystems on Nitrogen-Doped Carbon Nanotubes for Solar-Energy Harvesting.. *ACS Applied Bio Materials*, **2019**, 2, 2109-2115	4.1	5
103	Hydrogel Skin-Covered Neurons Self-Assembled with Gustatory Cells for Selective Taste Stimulation. *ACS Omega*, **2019**, 4, 12393-12401	3.9	7
102	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	13	12
101	Gold Binding Peptide Identified from Microfluidic Biopanning: An Experimental and Molecular Dynamics Study. *Langmuir*, **2019**, 35, 522-528	4	6
100	Microcapsules Containing pH-Responsive, Fluorescent Polymer-Integrated MoS: An Effective Platform for in Situ pH Sensing and Photothermal Heating. *ACS Applied Materials & Interfaces*, **2018**, 10, 9023-9031	9.5	38
99	Tannin-mediated assembly of gold□titanium oxide hybrid nanoparticles for plasmonic photochemical applications. *Journal of Industrial and Engineering Chemistry*, **2018**, 63, 420-425	6.3	8
98	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	6.3	2
97	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	11.7	14
96	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	16.7	5
95	Tannin-Titanium Oxide Multilayer as a Photochemically Suppressed Ultraviolet Filter. *ACS Applied Materials & Interfaces*, **2018**, 10, 27344-27354	9.5	18
94	Multilayered Plasmonic Heterostructure of Gold and Titania Nanoparticles for Solar Fuel Production. *Scientific Reports*, **2018**, 8, 10464	4.9	19
93	Morphological Evolution of Gold Nanoparticles into Nanodendrites Using Catechol-Grafted Polymer Templates. *ACS Omega*, **2018**, 3, 6683-6691	3.9	17
92	DNA-mediated self-assembly of taste cells and neurons for taste signal transmission. *Biomaterials Science*, **2018**, 6, 3388-3396	7.4	9
91	Cancer-targeted reactive oxygen species-degradable polymer nanoparticles for near infrared light-induced drug release. *Journal of Materials Chemistry B*, **2018**, 6, 7737-7749	7.3	12
90	Paclitaxel-induced formation of 3D nanocrystal superlattices within injectable protein-based hybrid nanoparticles. *Chemical Communications*, **2018**, 54, 11586-11589	5.8	3
89	Gold□titanium Dioxide Half-Dome Heterostructures for Plasmonic Hydrogen Evolution. *ACS Applied Energy Materials*, **2018**,	6.1	5
88	Stimuli-Responsive Neuronal Networking via Removable Alginate Masks. *Advanced Biology*, **2018**, 2, 1800030	9.3	7

87	Layer-by-layer siRNA/poly(L-lysine) Multilayers on Polydopamine-coated Surface for Efficient Cell Adhesion and Gene Silencing. *Scientific Reports*, **2018**, 8, 7738	4.9	24
86	Synthesis of efficient near-infrared-emitting CuInS2/ZnS quantum dots by inhibiting cation-exchange for bio application. *RSC Advances*, **2017**, 7, 10675-10682	3.7	25
85	DNA Lipoplex-Based Light-Harvesting Antennae. *Advanced Functional Materials*, **2017**, 27, 1700212	15.6	8
84	Thin-Layered Cobalt-Based Catalysts on Stainless-Steel Microfibers for the Efficient Electrolysis of Water. *ChemCatChem*, **2017**, 9, 3814-3820	5.2	3
83	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	9.3	1
82	Spontaneous linker-free binding of polyoxometalates on nitrogen-doped carbon nanotubes for efficient water oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 1941-1947	13	39
81	Plasmonically-assisted nanoarchitectures for solar water splitting: Obstacles and breakthroughs. *Nano Today*, **2017**, 16, 61-81	17.9	44
80	Virus-Templated Self-Mineralization of Ligand-Free Colloidal Palladium Nanostructures for High Surface Activity and Stability. *Advanced Functional Materials*, **2017**, 27, 1703262	15.6	12
79	Lipiodol nanoemulsions stabilized with polyglycerol-polycaprolactone block copolymers for theranostic applications. *Biomaterials Research*, **2017**, 21, 21	16.8	8
78	Polyglycerolated nanocarriers with increased ligand multivalency for enhanced in vivo therapeutic efficacy of paclitaxel. *Biomaterials*, **2017**, 145, 223-232	15.6	9
77	Image Cytometric Analysis of Algal Spores for Evaluation of Antifouling Activities of Biocidal Agents. *Scientific Reports*, **2017**, 7, 6908	4.9	3
76	Role of Ordered Ni Atoms in Li Layers for Li-Rich Layered Cathode Materials. *Advanced Functional Materials*, **2017**, 27, 1700982	15.6	26
75	Bioinspired Synthesis of Mesoporous Gold-silica Hybrid Microspheres as Recyclable Colloidal SERS Substrates. *Scientific Reports*, **2017**, 7, 14728	4.9	25
74	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	6.3	4
73	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	2.6	9
72	Protein-quantum dot nanohybrids for bioanalytical applications. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2016**, 8, 178-90	9.2	10
71	Elution dynamics of M13 bacteriophage bound to streptavidin immobilized in a microfluidic channel. *Biochip Journal*, **2016**, 10, 48-55	4	6
70	Reducible Dimeric Conjugates of Small Internally Segment Interfering RNA for Efficient Gene Silencing. *Macromolecular Bioscience*, **2016**, 16, 1442-1449	5.5	5

69	Temperature-responsive Hydrogels Synthesized from Photo-Polymerizable Poloxamer Macromers for Topical Skin Moisturizing. *Bulletin of the Korean Chemical Society*, **2016**, 37, 1331-1336	1.2	3
68	Stable nanoemulsions prepared via interfacial solidification of amphiphilic polyether-polyester block copolymers. *Journal of Colloid and Interface Science*, **2015**, 443, 197-205	9.3	4
67	Bioinspired Design of an Immobilization Interface for Highly Stable, Recyclable Nanosized Catalysts. *ACS Applied Materials & Interfaces*, **2015**, 7, 14415-22	9.5	37
66	Polyglycerol-poly(ε-caprolactone) block copolymer as a new semi-solid polymeric emulsifier to stabilize O/W nanoemulsions. *Colloid and Polymer Science*, **2015**, 293, 2949-2956	2.4	7
65	Flame-retardant, flexible vermiculite–polymer hybrid film. *RSC Advances*, **2015**, 5, 61768-61774	3.7	12
64	Dendrimeric siRNA for Efficient Gene Silencing. *Angewandte Chemie*, **2015**, 127, 6844-6848	3.6	10
63	Genetically Programmed Clusters of Gold Nanoparticles for Cancer Cell-Targeted Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2015**, 7, 22578-86	9.5	41
62	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	6.3	14
61	Controlling surface defects of non-stoichiometric copper-indium-sulfide quantum dots. *Journal of Colloid and Interface Science*, **2015**, 460, 173-80	9.3	21
60	ROS-induced biodegradable polythioketal nanoparticles for intracellular delivery of anti-cancer therapeutics. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 1137-1142	6.3	38
59	Low-density lipoprotein-mimicking nanoparticles for tumor-targeted theranostic applications. *Small*, **2015**, 11, 222-31	11	20
58	Dendrimeric siRNA for Efficient Gene Silencing. *Angewandte Chemie - International Edition*, **2015**, 54, 6740-4	16.4	48
57	Highly luminescent, off-stoichiometric CuxInyS2/ZnS quantum dots for near-infrared fluorescence bio-imaging. *RSC Advances*, **2015**, 5, 43449-43455	3.7	29
56	Fabrication and stabilization of nanoscale emulsions by formation of a thin polymer membrane at the oil–water interface. *RSC Advances*, **2015**, 5, 46276-46281	3.7	6
55	Imaging: Low-Density Lipoprotein-Mimicking Nanoparticles for Tumor-Targeted Theranostic Applications (Small 2/2015). *Small*, **2015**, 11, 146-146	11	2
54	Flexible Fibrous Piezoelectric Sensors on Printed Silver Electrodes. *IEEE Nanotechnology Magazine*, **2014**, 13, 709-713	2.6	7
53	Crystalline IrO2-decorated TiO2 nanofiber scaffolds for robust and sustainable solar water oxidation. *Journal of Materials Chemistry A*, **2014**, 2, 5610	13	27
52	In situ functionalization of highly porous polymer microspheres with silver nanoparticles via bio-inspired chemistry. *RSC Advances*, **2014**, 4, 55604-55609	3.7	24

51	Serum-stable quantum dot-protein hybrid nanocapsules for optical bio-imaging. *Nanotechnology*, **2014**, 25, 175702	3.4	19
50	Fabrication of a micro-omnifluidic device by omniphilic/omniphobic patterning on nanostructured surfaces. *ACS Nano*, **2014**, 8, 9016-24	16.7	68
49	Genomic and proteomic analyses of 1,3-dinitrobenzene-induced testicular toxicity in Sprague-Dawley rats. *Reproductive Toxicology*, **2014**, 43, 45-55	3.4	7
48	Flexible Fibrous Piezo-Electric Sensor on Printed Silver Electrode. *Materials Research Society Symposia Proceedings*, **2014**, 1685, 64		
47	Self-Assembly of Metalloporphyrins into Light-Harvesting Peptide Nanofiber Hydrogels for Solar Water Oxidation. *Small*, **2014**, 10, 1272-1277	11	45
46	Small interfering RNA nunchucks with a hydrophobic linker for efficient intracellular delivery. *Macromolecular Bioscience*, **2014**, 14, 195-201	5.5	5
45	Functional nanostructures for effective delivery of small interfering RNA therapeutics. *Theranostics* , **2014**, 4, 1211-32	12.1	86
44	Radio-opaque theranostic nanoemulsions with synergistic anti-cancer activity of paclitaxel and Bcl-2 siRNA. *RSC Advances*, **2013**, 3, 14642	3.7	21
43	Stabilized calcium phosphate nano-aggregates using a dopa-chitosan conjugate for gene delivery. *International Journal of Pharmaceutics*, **2013**, 445, 196-202	6.5	38
42	Silver-Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. *Macromolecular Materials and Engineering*, **2013**, 298, 547-554	3.9	96
41	Mussel-inspired modification of dextran for protein-resistant coatings of titanium oxide. *Carbohydrate Polymers*, **2013**, 97, 753-7	10.3	27
40	Protein-resistant, reductively dissociable polyplexes for in vivo systemic delivery and tumor-targeting of siRNA. *Biomaterials*, **2013**, 34, 2370-9	15.6	43
39	Bioinspired templating synthesis of metal-polymer hybrid nanostructures within 3D electrospun nanofibers. *ACS Applied Materials & Interfaces*, **2013**, 5, 6381-90	9.5	60
38	Virus-directed design of a flexible BaTiO3 nanogenerator. *ACS Nano*, **2013**, 7, 11016-25	16.7	187
37	Reductively Dissociable siRNA-Polymer Hybrid Nanogels for Efficient Targeted Gene Silencing. *Advanced Functional Materials*, **2013**, 23, 316-322	15.6	40
36	Cell-repellant dextran coatings of porous titania using mussel adhesion chemistry. *Macromolecular Bioscience*, **2013**, 13, 1511-9	5.5	33
35	Optically traceable solid lipid nanoparticles loaded with siRNA and paclitaxel for synergistic chemotherapy with in situ imaging. *Advanced Healthcare Materials*, **2013**, 2, 576-84	10.1	80
34	Virus-templated iridium oxide-gold hybrid nanowires for electrochromic application. *Nanoscale*, **2012**, 4, 3405-9	7.7	45

33	Small-interfering RNA (siRNA)-based functional micro- and nanostructures for efficient and selective gene silencing. *Accounts of Chemical Research*, **2012**, 45, 1014-25	24.3	51
32	Characterization, stability, and pharmacokinetics of sibutramine/Ecyclodextrin inclusion complex. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 1412-1417	6.3	15
31	Thermally controlled wettability of a nanoporous membrane grafted with catechol-tethered poly(N-isopropylacrylamide). *Chemical Communications*, **2012**, 48, 9227-9	5.8	16
30	Prolonged gene silencing by siRNA/chitosan-g-deoxycholic acid polyplexes loaded within biodegradable polymer nanoparticles. *Journal of Controlled Release*, **2012**, 162, 407-13	11.7	30
29	Virus-templated Au and Au/Pt Core/shell Nanowires and Their Electrocatalytic Activitives for Fuel Cell Applications. *Energy and Environmental Science*, **2012**, 5, 8328-8334	35.4	101
28	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. *Angewandte Chemie - International Edition*, **2012**, 51, 6126-30	16.4	115
27	Self-assembled, pH-sensitive retinoate nanostructures ionically complexed with PEG-grafted cationic polyelectrolytes. *Colloid and Polymer Science*, **2012**, 290, 839-845	2.4	3
26	Tocopheryl acetate nanoemulsions stabilized with lipid-polymer hybrid emulsifiers for effective skin delivery. *Colloids and Surfaces B: Biointerfaces*, **2012**, 94, 51-7	6	46
25	Intracellular delivery of paclitaxel using oil-free, shell cross-linked HSA--multi-armed PEG nanocapsules. *Biomaterials*, **2011**, 32, 8635-44	15.6	42
24	Biologically templated photocatalytic nanostructures for sustained light-driven water oxidation. *Nature Nanotechnology*, **2010**, 5, 340-4	28.7	202
23	Virus-templated assembly of porphyrins into light-harvesting nanoantennae. *Journal of the American Chemical Society*, **2010**, 132, 1462-3	16.4	166
22	Nanosized emulsions stabilized by semisolid polymer interphase. *Langmuir*, **2010**, 26, 13038-43	4	34
21	Enhanced Photocatalytic Activity using Layer-by-Layer Electrospun Constructs for Water Remediation. *Advanced Functional Materials*, **2010**, 20, 2424-2429	15.6	49
20	Silicone oil emulsions stabilized by semi-solid nanostructures entrapped at the interface. *Journal of Colloid and Interface Science*, **2010**, 351, 102-7	9.3	9
19	Quantitative morphometric measurements using site selective image cytometry of intact tissue. *Journal of the Royal Society Interface*, **2009**, 6 Suppl 1, S45-57	4.1	7
18	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, 10314-9	11.5	11
17	Multiscale structural analysis of mouse lingual myoarchitecture employing diffusion spectrum magnetic resonance imaging and multiphoton microscopy. *Journal of Biomedical Optics*, **2008**, 13, 064003	3.5	14
16	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	2.9	10

15	Chemical immobilization of retinoic acid within poly(ε-caprolactone) nanoparticles based on drug–polymer bioconjugates. *Journal of Applied Polymer Science*, **2003**, 89, 1631-1637	2.9	10
14	New micelle-like polymer aggregates made from PEI-PLGA diblock copolymers: micellar characteristics and cellular uptake. *Biomaterials*, **2003**, 24, 2053-9	15.6	107
13	Surface immobilization of galactose onto aliphatic biodegradable polymers for hepatocyte culture. *Biotechnology and Bioengineering*, **2002**, 78, 1-10	4.9	76
12	Determination of zeta potentials of polymeric nanoparticles by the conductivity variation method. *Journal of Colloid and Interface Science*, **2002**, 255, 352-5	9.3	11
11	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	5.1	61
10	Intracellular drug delivery using poly(d,l-lactide-co-glycolide) nano- particles derivatized with a peptide from a transcriptional activator protein of HIV-1. *Biotechnology Letters*, **2002**, 24, 2093-2098	3	27
9	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, 275-84	11.7	22
8	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		447
7	Lysozyme microencapsulation within biodegradable PLGA microspheres: urea effect on protein release and stability. *Biotechnology and Bioengineering*, **2000**, 70, 270-7	4.9	35
6	Protein loaded biodegradable microspheres based on PLGA-protein bioconjugates. *Journal of Microencapsulation*, **1999**, 16, 625-37	3.4	26
5	Adhesion behaviours of hepatocytes cultured onto biodegradable polymer surface modified by alkali hydrolysis process. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 1145-58	3.5	70
4	Biodegradable polymeric microcellular foams by modified thermally induced phase separation method. *Biomaterials*, **1999**, 20, 1783-90	15.6	336
3	Conjugation of drug to poly(D,L-lactic-co-glycolic acid) for controlled release from biodegradable microspheres. *Journal of Controlled Release*, **1999**, 57, 269-80	11.7	53
2	Porous biodegradable polymeric scaffolds prepared by thermally induced phase separation. *Journal of Biomedical Materials Research Part B*, **1999**, 47, 8-17		508
1	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, 181-91	11.7	151