

Jin-Woo Kim

List of Publications by Year in descending order

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102
papers

3,413
citations

257357

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143943

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105
all docs

105
docs citations

105
times ranked

4650
citing authors

#	ARTICLE	IF	CITATIONS
1	PEGylated Gold Nanoparticle Toxicity in Cardiomyocytes: Assessment of Size, Concentration, and Time Dependency. IEEE Transactions on Nanobioscience, 2022, 21, 387-394.	2.2	5
2	A Bioconjugated Chlorin-Based Metal-Organic Framework for Targeted Photodynamic Therapy of Triple Negative Breast and Pancreatic Cancers. ACS Applied Bio Materials, 2021, 4, 1432-1440.	2.3	19
3	Enhanced osteogenic potential of unzipped carbon nanotubes for tissue engineering. Journal of Biomedical Materials Research - Part A, 2021, 109, 1869-1880.	2.1	12
4	Design Approaches and Computational Tools for DNA Nanostructures. IEEE Open Journal of Nanotechnology, 2021, 2, 86-100.	0.9	6
5	Exosomes: Biological Pharmaceutical Nanovectors for Theranostics. Frontiers in Bioengineering and Biotechnology, 2021, 9, 808614.	2.0	15
6	Preparation and Characterization of Nanopatterned Polycaprolactone/Cellulose Nanocrystal Composite Membranes for Cardiovascular Tissue Engineering. , 2021, , .		0
7	Enhanced Localized Surface Plasmon Resonance of Gold Nanoparticles Synthesized on Cellulose Nanocrystals. , 2021, , .		0
8	A Facile Microwave Assisted TEMPO/NaOCl/Oxone (KHSO ₅) Mediated Micron Cellulose Oxidation Procedure: Preparation of Two Nano TEMPO-Cellulose Forms. Starch/Staerke, 2020, 72, 1900213.	1.1	5
9	Maximizing production of cellulose nanocrystals and nanofibers from pre-extracted loblolly pine kraft pulp: a response surface approach. Bioresources and Bioprocessing, 2020, 7, .	2.0	55
10	Electrical and Data-Retention Characteristics of Two-Terminal Thyristor Random Access Memory. IEEE Open Journal of Nanotechnology, 2020, 1, 163-169.	0.9	2
11	Maltotriose Conjugated Metal-Organic Frameworks for Selective Targeting and Photodynamic Therapy of Triple Negative Breast Cancer Cells and Tumor Associated Macrophages. Advanced Therapeutics, 2020, 3, 2000029.	1.6	15
12	Investigating the effects of hemicellulose pre-extraction on the production and characterization of loblolly pine nanocellulose. Cellulose, 2020, 27, 3693-3706.	2.4	33
13	Nanoscale Particles and Multifunctional Hybrid Soft Nanomaterials in Bio/Nanomedicine. , 2020, , 1-58.		4
14	Cell-Derived Biomimetic Nanostructures for Biomedical Applications. , 2020, , 195-228.		1
15	Cues from the Nanoenvironment: The Role of Nanomaterials in Stem Cell Differentiation and Stem Cell Tissue Engineering. , 2020, , 361-400.		1
16	Numerical Simulation of a Microscale Dynamo Driven by Tethered, Magnetized Bacterial Cell. , 2020, , .		0
17	Enhanced Osteogenesis of Human Mesenchymal Stem Cells in Presence of Single-Walled Carbon Nanotubes. IEEE Transactions on Nanobioscience, 2019, 18, 463-468.	2.2	18
18	In Vitro Biocompatibility of Electrospun Poly(ϵ -Caprolactone)/Cellulose Nanocrystals-Nanofibers for Tissue Engineering. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	17

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19	Nanotechnology-Based Stem Cell Tissue Engineering with a Focus on Regeneration of Cardiovascular Systems. , 2019, , 1-67.		1
20	Nanocrystalline Cellulose-Derived Doped Carbonaceous Material for Rapid Mineralization of Nitrophenols under Visible Light. ACS Omega, 2018, 3, 8111-8121.	1.6	17
21	In vitro molecular machine learning algorithm via symmetric internal loops of DNA. BioSystems, 2017, 158, 1-9.	0.9	5
22	Permeability enhancement of Escherichia coli by single-walled carbon nanotube treatment. Biotechnology Progress, 2017, 33, 654-657.	1.3	5
23	Beneficial effects of Trametes versicolor pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood. RSC Advances, 2017, 7, 45652-45661.	1.7	10
24	Pretreatments for Enhanced Enzymatic Hydrolysis of Pinewood: a Review. Bioenergy Research, 2017, 10, 1138-1154.	2.2	28
25	3D-printed peristaltic microfluidic systems fabricated from thermoplastic elastomer. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	17
26	Nanotechnology-Based Stem Cell Applications and Imaging. Pancreatic Islet Biology, 2017, , 17-35.	0.1	1
27	Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. Advanced Healthcare Materials, 2016, 5, 2069-2079.	3.9	33
28	Hierarchically Micro- and Nanopatterned Topographical Cues for Modulation of Cellular Structure and Function. IEEE Transactions on Nanobioscience, 2016, 15, 835-842.	2.2	17
29	Stem Cell Substrates: Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells (Adv. Healthcare Mater. 16/2016). Advanced Healthcare Materials, 2016, 5, 2144-2144.	3.9	1
30	Physical Stimulation-Based Osteogenesis: Effect of Secretion & In Vitro on Fluid Dynamic Shear Stress of Human Alveolar Bone-Derived Mesenchymal Stem Cells. IEEE Transactions on Nanobioscience, 2016, 15, 881-890.	2.2	9
31	Fluorescent ampicillin analogues as multifunctional disguising agents against opsonization. Nanoscale, 2016, 8, 12658-12667.	2.8	6
32	Bio-Hybrid Micro/Nanodevices Powered by Flagellar Motor: Challenges and Strategies. Frontiers in Bioengineering and Biotechnology, 2015, 3, 100.	2.0	13
33	Subsurface nanoimaging by THz pulse near-field microscopy. , 2015, , .		1
34	Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. Journal of Biosystems Engineering, 2015, 40, 373-393.	1.2	35
35	Stealth nanotubes: strategies of shielding carbon nanotubes to evade opsonization and improve biodistribution. International Journal of Nanomedicine, 2014, 9 Suppl 1, 85.	3.3	15
36	In Vivo Photoacoustic Detection of Circulating Cells and Nanoparticles. Frontiers in Nanobiomedical Research, 2014, , 453-487.	0.1	0

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37	A DNA-based pattern classifier with in vitro learning and associative recall for genomic characterization and biosensing without explicit sequence knowledge. <i>Journal of Biological Engineering</i> , 2014, 8, 25.	2.0	0
38	Development and characterization of fast-hardening composite cements composed of natural ceramics originated from horse bones and chitosan solution. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 362-371.	1.6	4
39	Nanotheranostics of Circulating Tumor Cells, Infections and Other Pathological Features <i>in Vivo</i> . <i>Molecular Pharmaceutics</i> , 2013, 10, 813-830.	2.3	59
40	Photothermal nanodrugs: potential of TNF-gold nanospheres for cancer theranostics. <i>Scientific Reports</i> , 2013, 3, 1293.	1.6	121
41	Assessing the Detection Capacity of Microarrays as Bio/Nanosensing Platforms. <i>BioMed Research International</i> , 2013, 2013, 1-8.	0.9	31
42	Nanoparticles: Molecular Self-Assembly of Multifunctional Nanoparticle Composites with Arbitrary Shapes and Functions: Challenges and Strategies (Part. Part. Syst. Charact. 2/2013). <i>Particle and Particle Systems Characterization</i> , 2013, 30, 112-112.	1.2	0
43	Molecular Self-Assembly of Multifunctional Nanoparticle Composites with Arbitrary Shapes and Functions: Challenges and Strategies. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 117-132.	1.2	29
44	Selective Pathogen Targeting and Macrophage Evading Carbon Nanotubes Through Dextran Sulfate Coating and PEGylation for Photothermal Theranostics. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1008-1016.	0.5	30
45	Diffusion of Single-Walled Carbon Nanotube Under Physiological Conditions. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1065-1070.	0.5	11
46	In Vivo Magnetic Enrichment, Photoacoustic Diagnosis, and Photothermal Purging of Infected Blood Using Multifunctional Gold and Magnetic Nanoparticles. <i>PLoS ONE</i> , 2012, 7, e45557.	1.1	78
47	Programmable Construction of Nanostructures: Assembly of Nanostructures with Various Nanocomponents. <i>IEEE Nanotechnology Magazine</i> , 2012, 6, 19-23.	0.9	10
48	Advanced contrast nanoagents for photoacoustic molecular imaging, cytometry, blood test and photothermal theranostics. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 346-369.	0.4	111
49	DNA-Linked Nanoparticle Building Blocks for Programmable Matter. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9185-9190.	7.2	88
50	Back Cover: DNA-Linked Nanoparticle Building Blocks for Programmable Matter (<i>Angew. Chem. Int. Ed.</i>)	7.2	88
51	Alternative antimicrobial compounds to control potential <i>Lactobacillus</i> contamination in bioethanol fermentations. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2011, 46, 709-14.	0.7	8
52	Carbon nanotube clusters as universal bacterial adsorbents and magnetic separation agents. <i>Biotechnology Progress</i> , 2010, 26, 179-185.	1.3	16
53	Electrical Properties of an Individual Chicken Infectious Laryngotracheitis Virus. <i>IEEE Nanotechnology Magazine</i> , 2010, 4, 10-14.	0.9	0
54	Carbon Nanotubes Fed on Carbs- Coating of Single-Walled Carbon Nanotubes by Dextran Sulfate. <i>Macromolecular Bioscience</i> , 2010, 10, 231-238.	2.1	16

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55	Sugar coated stealth carbon nanotubes. , 2010, , .		0
56	Simultaneously Controlled Directionality and Valency on a Water-Soluble Gold Nanoparticle Precursor for Aqueous-Phase Anisotropic Self-Assembly. Langmuir, 2010, 26, 18634-18638.	1.6	13
57	Independent Sets of DNA Oligonucleotides for Nanotechnology Applications. IEEE Transactions on Nanobioscience, 2010, 9, 38-43.	2.2	5
58	Performance evaluation of a pneumatic-based micromixer for bioconjugation reaction. , 2010, , .		3
59	Aqueous-phase synthesis of monodisperse plasmonic gold nanocrystals using shortened single-walled carbon nanotubes. Chemical Communications, 2010, 46, 7142.	2.2	11
60	Controlled chemical functionalization of water-soluble nanoprobe for site-specific biomedical diagnosis. , 2010, , .		0
61	Impedance spectroscopy of Chicken Infectious Laryngotracheitis Virus Based on atomic force microscopy. , 2009, , .		1
62	<i>In vivo</i> fiber-based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. Journal of Biophotonics, 2009, 2, 528-539.	1.1	107
63	Nanotechnology-based molecular photoacoustic and photothermal flow cytometry platform for <i>in vivo</i> detection and killing of circulating cancer stem cells. Journal of Biophotonics, 2009, 2, 725-735.	1.1	126
64	Golden carbon nanotubes as multimodal photoacoustic and photothermal high-contrast molecular agents. Nature Nanotechnology, 2009, 4, 688-694.	15.6	656
65	<i>In vivo</i> magnetic enrichment and multiplex photoacoustic detection of circulating tumour cells. Nature Nanotechnology, 2009, 4, 855-860.	15.6	544
66	Highly effective bacterial removal system using carbon nanotube clusters. , 2009, , .		3
67	Exploring the potential of microarray technology for bio/nano sensing. , 2009, , .		0
68	Putting E. coli to good use. IEEE Nanotechnology Magazine, 2008, 2, 4-8.	0.9	2
69	Adhesion Study of Escherichia coli Cells on Nano-/Microtextured Surfaces in a Microfluidic System. IEEE Nanotechnology Magazine, 2008, 7, 573-579.	1.1	4
70	Sequential Solid-Phase Fabrication of Bifunctional Anchors on Gold Nanoparticles for Controllable and Scalable Nanoscale Structure Assembly. Langmuir, 2008, 24, 5667-5671.	1.6	15
71	Nanoscale flagellar-motor based MEMS biosensor for explosive detection. , 2008, , .		5
72	Rotational Control of Tethered Bacterial Flagellar Motor. , 2008, , .		1

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73	Controlling the rotational behavior of bacterial flagellar motors. , 2008, , .		0
74	The Effect of Surface Nano/Micro-Texturing on Escherichia Coli Cell Adhesion. , 2008, , .		0
75	DNA-Directed Self-Assembly of Microscopic 1-D Carbon Nanotube Wire. , 2007, , .		0
76	Non-Crosshybridizing Oligonucleotide Building Blocks for Accurate, Scalable Nanofabrication. , 2007, , .		0
77	An Aligned Carbon Nanotube Biosensor for DNA Detection. , 2007, , .		14
78	Amyloglucosidase enzymatic reactivity inside lipid vesicles. Journal of Biological Engineering, 2007, 1, 4.	2.0	16
79	Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. Journal of Biomedical Optics, 2007, 12, 051503.	1.4	151
80	Photothermal antimicrobial nanotherapy and nanodiagnostics with self-assembling carbon nanotube clusters. Lasers in Surgery and Medicine, 2007, 39, 622-634.	1.1	133
81	Microscale hybrid devices powered by biological flagellar motors. IEEE Transactions on Automation Science and Engineering, 2006, 3, 260-263.	3.4	23
82	Hybrid flagellar motor/MEMS based TNT detection system. , 2006, 6223, 66.		3
83	Screening Extremophiles for Bioconversion Potentials. Biotechnology Progress, 2006, 22, 1720-1724.	1.3	4
84	Chemo-sensitivity and reliability of flagellar rotary motor in a MEMS microfluidic actuation system. Sensors and Actuators B: Chemical, 2006, 114, 229-238.	4.0	10
85	In situ fluorescence microscopy visualization and characterization of nanometer-scale carbon nanotubes labeled with 1-pyrenebutanoic acid, succinimidyl ester. Applied Physics Letters, 2006, 88, 213110.	1.5	25
86	Screening Extremophiles for Bioconversion Potentials. Biotechnology Progress, 2006, 22, 1720-1724.	1.3	7
87	Test Tube Selection of Large Independent Sets of DNA Oligonucleotides. , 2006, , 147-161.		8
88	Estimating the sequence complexity of a random oligonucleotide population by using in vitro thermal melting and Cot analyses. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 220-230.	1.7	11
89	Self-assembling nanoclusters in living systems: application for integrated photothermal nanodiagnostics and nanotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 326-345.	1.7	213
90	A microscale biosensor based on integration of single-stranded DNAs and aligned multi-walled carbon nanotubes. , 2005, , .		0

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91	Microbial C-hydroxylation and 2-4-O-methylglucosidation of methyl-benzamide 7-azanorbornane ethers with <i>Beauveria bassiana</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 97-105.	1.8	16
92	Energy-Cost Reduction in Starch Processing Using Aqueous Two Phase Reactor Systems. <i>Separation Science and Technology</i> , 2003, 38, 2709-2724.	1.3	2
93	Design and test of noncrosshybridizing oligonucleotide building blocks for DNA computers and nanostructures. <i>Applied Physics Letters</i> , 2003, 82, 1305-1307.	1.5	34
94	Amylase partitioning and extractive bioconversion of starch using thermoseparating aqueous two-phase systems. <i>Journal of Biotechnology</i> , 2002, 93, 15-26.	1.9	66
95	Kinetic enhancement of starch bioconversion in thermoseparating aqueous two-phase reactor systems. <i>Biochemical Engineering Journal</i> , 2002, 11, 25-32.	1.8	21
96	Enhanced-Rate Biodegradation of Organophosphate Neurotoxins by Immobilized Nongrowing Bacteria. <i>Biotechnology Progress</i> , 2002, 18, 429-436.	1.3	25
97	Biochemical confirmation and characterization of the family-57-like α -amylase of <i>Methanococcus jannaschii</i> . <i>Folia Microbiologica</i> , 2001, 46, 467-473.	1.1	43
98	Novel, thermostable family-13-like glycoside hydrolase from <i>Methanococcus jannaschii</i> . <i>Folia Microbiologica</i> , 2001, 46, 475-481.	1.1	3
99	Isolation and characterization of β -galactosidase from <i>Lactobacillus crispatus</i> . <i>Folia Microbiologica</i> , 2000, 45, 29-34.	1.1	43
100	Processing efficiency of immobilized non-growing bacteria: Biocatalytic modeling and experimental analysis. <i>Canadian Journal of Chemical Engineering</i> , 1999, 77, 883-892.	0.9	3
101	Harnessing the Power of Flagellar Motors. , 0, , .		3
102	Development of an electrically addressable DNA-based aligned multi-walled carbon nanotube nanosensor. , 0, , .		2