Yong Il Park

List of Publications by Year
in descending order

52	6,839	147801 31	149698 56
papers	citations	h-index	g-index

56	56	56	11621
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Label-free detection and molecular profiling of exosomes with a nano-plasmonic sensor. Nature Biotechnology, 2014, 32, 490-495.	17.5	1,060
2	Large-Scale Synthesis of Uniform and Extremely Small-Sized Iron Oxide Nanoparticles for High-Resolution T₁ Magnetic Resonance Imaging Contrast Agents. Journal of the American Chemical Society, 2011, 133, 12624-12631.	13.7	835
3	Nonblinking and Nonbleaching Upconverting Nanoparticles as an Optical Imaging Nanoprobe and T1 Magnetic Resonance Imaging Contrast Agent. Advanced Materials, 2009, 21, 4467-4471.	21.0	548
4	Development of aT1â€...Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 5397-5401.	13.8	545
5	Upconverting nanoparticles: a versatile platform for wide-field two-photon microscopy and multi-modal in vivo imaging. Chemical Society Reviews, 2015, 44, 1302-1317.	38.1	504
6	Theranostic Probe Based on Lanthanideâ€Doped Nanoparticles for Simultaneous In Vivo Dualâ€Modal Imaging and Photodynamic Therapy. Advanced Materials, 2012, 24, 5755-5761.	21.0	367
7	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. Nature Materials, 2013, 12, 359-366.	27.5	240
8	Large-Scale Nonhydrolytic Sol-Gel Synthesis of Uniform-Sized Ceria Nanocrystals with Spherical, Wire, and Tadpole Shapes. Angewandte Chemie - International Edition, 2005, 44, 7411-7414.	13.8	238
9	Longâ€Term Realâ€Time Tracking of Lanthanide Ion Doped Upconverting Nanoparticles in Living Cells. Angewandte Chemie - International Edition, 2011, 50, 6093-6097.	13.8	230
10	Recent Development of Inorganic Nanoparticles for Biomedical Imaging. ACS Central Science, 2018, 4, 324-336.	11.3	196
11	Simple and Generalized Synthesis of Oxideâ€"Metal Heterostructured Nanoparticles and their Applications in Multimodal Biomedical Probes. Journal of the American Chemical Society, 2008, 130, 15573-15580.	13.7	162
12	Ultraâ€Wideband Multiâ€Dyeâ€Sensitized Upconverting Nanoparticles for Information Security Application. Advanced Materials, 2017, 29, 1603169.	21.0	153
13	Magnetic Nanocomposite Spheres Decorated with NiO Nanoparticles for a Magnetically Recyclable Protein Separation System. Advanced Materials, 2010, 22, 57-60.	21.0	147
14	Various-Shaped Uniform Mn₃O₄ Nanocrystals Synthesized at Low Temperature in Air Atmosphere. Chemistry of Materials, 2009, 21, 2272-2279.	6.7	135
15	Multipleâ€Interaction Ligands Inspired by Mussel Adhesive Protein: Synthesis of Highly Stable and Biocompatible Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 11360-11365.	13.8	117
16	Lateral flow aptamer assay integrated smartphone-based portable device for simultaneous detection of multiple targets using upconversion nanoparticles. Sensors and Actuators B: Chemical, 2018, 276, 48-56.	7.8	112
17	Endocytosis, intracellular transport, and exocytosis of lanthanide-doped upconverting nanoparticles in single living cells. Biomaterials, 2012, 33, 9080-9086.	11.4	105
18	Single Unit Cell Thick Samaria Nanowires and Nanoplates. Journal of the American Chemical Society, 2006, 128, 1786-1787.	13.7	100

#	Article	IF	Citations
19	Versatile PEG-derivatized phosphine oxide ligands for water-dispersible metal oxide nanocrystals. Chemical Communications, 2007, , 5167.	4.1	93
20	Recent Advances in Inorganic Nanoparticle-Based NIR Luminescence Imaging: Semiconductor Nanoparticles and Lanthanide Nanoparticles. Bioconjugate Chemistry, 2017, 28, 115-123.	3.6	69
21	Facial Layer-by-Layer Engineering of Upconversion Nanoparticles for Gene Delivery: Near-Infrared-Initiated Fluorescence Resonance Energy Transfer Tracking and Overcoming Drug Resistance in Ovarian Cancer. ACS Applied Materials & Interfaces, 2017, 9, 7941-7949.	8.0	64
22	pH-sensitive multi-drug liposomes targeting folate receptor Î² for efficient treatment of non-small cell lung cancer. Journal of Controlled Release, 2021, 330, 1-14.	9.9	53
23	Hyaluronic Acid-Decorated Glycol Chitosan Nanoparticles for pH-Sensitive Controlled Release of Doxorubicin and Celecoxib in Nonsmall Cell Lung Cancer. Bioconjugate Chemistry, 2020, 31, 923-932.	3.6	51
24	Transformation of hydrophobic iron oxide nanoparticles to hydrophilic and biocompatible maghemite nanocrystals for use as highly efficient MRI contrast agent. Journal of Materials Chemistry, 2011, 21, 11472.	6.7	49
25	Comparative Study of Upconverting Nanoparticles with Various Crystal Structures, Core/Shell Structures, and Surface Characteristics. Journal of Physical Chemistry C, 2013, 117, 2239-2244.	3.1	48
26	Lanthanide-Doped Upconversion Nanocarriers for Drug and Gene Delivery. Nanomaterials, 2018, 8, 511.	4.1	46
27	Platelet-Like Gold Nanostars for Cancer Therapy: The Ability to Treat Cancer and Evade Immune Reactions. Frontiers in Bioengineering and Biotechnology, 2020, 8, 133.	4.1	42
28	Near-Infrared Light-Triggered Photodynamic Therapy and Apoptosis Using Upconversion Nanoparticles With Dual Photosensitizers. Frontiers in Bioengineering and Biotechnology, 2020, 8, 275.	4.1	42
29	Lanthanide-Doped Nanoparticles for Diagnostic Sensing. Nanomaterials, 2017, 7, 411.	4.1	39
30	Mesoporous silica-coated luminescent Eu³⁺doped GdVO₄nanoparticles for multimodal imaging and drug delivery. RSC Advances, 2014, 4, 45687-45695.	3.6	31
31	Rapid and efficient protein digestion using trypsinâ€coated magnetic nanoparticles under pressure cycles. Proteomics, 2011, 11, 309-318.	2.2	30
32	Nanostar Clustering Improves the Sensitivity of Plasmonic Assays. Bioconjugate Chemistry, 2015, 26, 1470-1474.	3.6	28
33	Radiating Amyloid Fibril Formation on the Surface of Lipid Membranes through Unit-Assembly of Oligomeric Species of Î±-Synuclein. PLoS ONE, 2012, 7, e47580.	2.5	26
34	Largeâ€Scale Synthesis of Water Dispersible Ceria Nanocrystals by a Simple Solâ€“Gel Process and Their Use as a Chemical Mechanical Planarization Slurry. European Journal of Inorganic Chemistry, 2008, 2008, 855-858.	2.0	23
35	Compact and Filter-Free Luminescence Biosensor for Mobile in Vitro Diagnoses. ACS Nano, 2019, 13, 11698-11706.	14.6	22
36	Visible/near-infrared driven highly efficient photocatalyst based on upconversion nanoparticles/g-C3N4 nanocomposite. Applied Surface Science, 2020, 508, 144839.	6.1	20

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37	Polyphosphide Precursor for Low-Temperature Solution-Processed Fibrous Phosphorus Thin Films. Chemistry of Materials, 2019, 31, 5909-5918.	6.7	18
38	Expanded solar absorption spectrum to improve photoelectrochemical oxygen evolution reaction: Synergistic effect of upconversion nanoparticles and ZnFe2O4/TiO2. Chemical Engineering Journal, 2022, 438, 135503.	12.7	18
39	Efficient protein digestion using highly-stable and reproducible trypsin coatings on magnetic nanofibers. Chemical Engineering Journal, 2016, 288, 770-777.	12.7	15
40	Shape-Controlled Synthesis of Au Nanostructures Using EDTA Tetrasodium Salt and Their Photothermal Therapy Applications. Nanomaterials, 2018, 8, 252.	4.1	15
41	Facile synthesis of ultra-small hollow manganese silicate nanoparticles as pH/GSH-responsive T1-MRI contrast agents. Ceramics International, 2020, 46, 18632-18638.	4.8	14
42	Facile Coating Strategy to Functionalize Inorganic Nanoparticles for Biosensing. Bioconjugate Chemistry, 2017, 28, 33-37.	3.6	13
43	Single Step Isolation and Activation of Primary CD3⁺ T Lymphocytes Using Alcohol-Dispersed Electrospun Magnetic Nanofibers. Nano Letters, 2012, 12, 4018-4024.	9.1	11
44	Digital diffraction detection of protein markers for avian influenza. Lab on A Chip, 2016, 16, 1340-1345.	6.0	11
45	Fabrication of fluorescent composite hydrogel usingin situsynthesis of upconversion nanoparticles. Nanotechnology, 2017, 28, 175702.	2.6	10
46	Noninvasive Early Detection of Calpain 2-Enriched Non-Small Cell Lung Cancer Using a Human Serum Albumin-Bounded Calpain 2 Nanosensor. Bioconjugate Chemistry, 2020, 31, 803-812.	3.6	8
47	Hollow MnOxPy and Pt/MnOxPy yolk/shell nanoparticles as a T1 MRI contrast agent. Journal of Colloid and Interface Science, 2015, 439, 134-138.	9.4	7
48	Statistical Time-Resolved Spectroscopic Study on Upconversion Luminescence. Journal of Physical Chemistry C, 2020, 124, 2680-2688.	3.1	7
49	Colloidal Suprastructures Self-Organized from Oppositely Charged All-Inorganic Nanoparticles. Chemistry of Materials, 2020, 32, 8662-8671.	6.7	7
50	Prussian blue-graphene oxide composite cathode for a sodium-ion capacitor with improved cyclic stability and energy density. Journal of Alloys and Compounds, 2022, 898, 162952.	5.5	7
51	TiO₂ Nanotube Arrays Decorated with Reduced Graphene Oxide and Cuâ€“Tetracyanoquinodimethane as Anode Materials for Photoelectrochemical Water Oxidation. ACS Applied Nano Materials, 2021, 4, 13218-13233.	5.0	5
52	Development of ErbB2-Targeting Liposomes for Enhancing Drug Delivery to ErbB2-Positive Breast Cancer. Pharmaceutics, 2020, 12, 585.	4.5	3