

Junghwan Oh

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

4,130
citations

76294

40
h-index

133188

59
g-index

119
all docs

119
docs citations

119
times ranked

5593
citing authors

#	ARTICLE	IF	CITATIONS
1	Full-view in vivo skin and blood vessels profile segmentation in photoacoustic imaging based on deep learning. <i>Photoacoustics</i> , 2022, 25, 100310.	4.4	15
2	Enhanced precision of real-time control photothermal therapy using cost-effective infrared sensor array and artificial neural network. <i>Computers in Biology and Medicine</i> , 2022, 141, 104960.	3.9	3
3	The impact of Cu(II) ions doping in nanostructured hydroxyapatite powder: A finite element modelling study for physico-mechanical and biological property evaluation. <i>Advanced Powder Technology</i> , 2022, 33, 103405.	2.0	11
4	A Flexible, Wearable, and Wireless Biosensor Patch with Internet of Medical Things Applications. <i>Biosensors</i> , 2022, 12, 139.	2.3	32
5	Computational analysis of drug free silver triangular nanoprism theranostic probe plasmonic behavior for in-situ tumor imaging and photothermal therapy. <i>Journal of Advanced Research</i> , 2022, 41, 23-38.	4.4	11
6	Fluorescence conjugated nanostructured cobalt-doped hydroxyapatite platform for imaging-guided drug delivery application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 214, 112458.	2.5	10
7	Design and Micro-Fabrication of Focused High-Frequency Needle Transducers for Medical Imaging. <i>Sensors</i> , 2022, 22, 3763.	2.1	1
8	Smart inexpensive quantitative urine glucose and contaminant bromide ion sensor based on metal nanoparticles with deep learning approach. <i>Materials Chemistry and Physics</i> , 2022, 287, 126289.	2.0	2
9	Development of Scanning Acoustic Microscopy System for Evaluating the Resistance Spot Welding Quality. <i>Research in Nondestructive Evaluation</i> , 2022, 33, 123-137.	0.5	2
10	Development of fast photoacoustic and ultrasound imaging system based on slider-crank scanner for small animals and humans study. <i>Expert Systems With Applications</i> , 2022, 206, 117939.	4.4	4
11	Recent Progress on Nanostructured Materials for Biomedical Applications. <i>Environmental and Microbial Biotechnology</i> , 2021, , 349-373.	0.4	0
12	Design of a nearly linear-phase IIR filter and JPEG compression ECG signal in real-time system. <i>Biomedical Signal Processing and Control</i> , 2021, 67, 102431.	3.5	9
13	Design of a High-Power Multilevel Sinusoidal Signal and High-Frequency Excitation Module Based on FPGA for HIFU Systems. <i>Electronics (Switzerland)</i> , 2021, 10, 1299.	1.8	2
14	Rice starch coated iron oxide nanoparticles: A theranostic probe for photoacoustic imaging-guided photothermal cancer therapy. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 55-67.	3.6	23
15	Fluorescence/photoacoustic imaging-guided nanomaterials for highly efficient cancer theragnostic agent. <i>Scientific Reports</i> , 2021, 11, 15943.	1.6	17
16	A smart LED therapy device with an automatic facial acne vulgaris diagnosis based on deep learning and internet of things application. <i>Computers in Biology and Medicine</i> , 2021, 136, 104610.	3.9	16
17	Ultra-widefield photoacoustic microscopy with a dual-channel slider-crank laser-scanning apparatus for in vivo biomedical study. <i>Photoacoustics</i> , 2021, 23, 100274.	4.4	10
18	A flexible, and wireless LED therapy patch for skin wound photomedicine with IoT-connected healthcare application. <i>Flexible and Printed Electronics</i> , 2021, 6, 045002.	1.5	10

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19	Roles of Chitosan in Green Synthesis of Metal Nanoparticles for Biomedical Applications. <i>Nanomaterials</i> , 2021, 11, 273.	1.9	52
20	Hydroxyapatite nano bioceramics optimized 3D printed poly lactic acid scaffold for bone tissue engineering application. <i>Ceramics International</i> , 2020, 46, 3443-3455.	2.3	128
21	Fabrication and biological activity of polycaprolactone/phlorotannin endotracheal tube to prevent tracheal stenosis: An in vitro and in vivo study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1046-1056.	1.6	17
22	Folic acid-conjugated chitosan-functionalized graphene oxide for highly efficient photoacoustic imaging-guided tumor-targeted photothermal therapy. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 961-971.	3.6	60
23	Chitosan and their derivatives: Antibiofilm drugs against pathogenic bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110627.	2.5	139
24	An Up-To-Date Review on Biomedical Applications of Palladium Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 66.	1.9	98
25	A portable device with low-power consumption for monitoring mouse vital signs during in vivo photoacoustic imaging and photothermal therapy. <i>Physiological Measurement</i> , 2020, 41, 125011.	1.2	6
26	Fuzzy Logic Control-Based HIFU System Integrated with Photoacoustic Imaging Module for Ex Vivo Artificial Tumor Treatment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7888.	1.3	7
27	Rare earth element doped hydroxyapatite luminescent bioceramics contrast agent for enhanced biomedical imaging and therapeutic applications. <i>Ceramics International</i> , 2020, 46, 29249-29260.	2.3	35
28	Design of a Multichannel Pulser/Receiver and Optimized Damping Resistor for High-Frequency Transducer Applied to SAM System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8388.	1.3	2
29	Development of a LED light therapy device with power density control using a Fuzzy logic controller. <i>Medical Engineering and Physics</i> , 2020, 86, 71-77.	0.8	10
30	Real-Time Filtering and ECG Signal Processing Based on Dual-Core Digital Signal Controller System. <i>IEEE Sensors Journal</i> , 2020, 20, 6492-6503.	2.4	20
31	Improved Depth-of-Field Photoacoustic Microscopy with a Multifocal Point Transducer for Biomedical Imaging. <i>Sensors</i> , 2020, 20, 2020.	2.1	13
32	Fabrication of High Frequency Transducer for Nondestructive Testing. <i>Journal of Power System Engineering</i> , 2020, 24, 36-42.	0.4	1
33	Chitosan oligosaccharide coated mesoporous silica nanoparticles for pH-stimuli responsive drug delivery applications. <i>Journal of Porous Materials</i> , 2019, 26, 217-226.	1.3	25
34	Anti-EGFR antibody conjugated thiol chitosan-layered gold nanoshells for dual-modal imaging-guided cancer combination therapy. <i>Journal of Controlled Release</i> , 2019, 311-312, 26-42.	4.8	55
35	Indocyanine green and poly I:C containing thermo-responsive liposomes used in immune-photothermal therapy prevent cancer growth and metastasis. , 2019, 7, 220.		57
36	Synthesis and characterization of chitosan oligosaccharide-capped gold nanoparticles as an effective antibiofilm drug against the <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbial Pathogenesis</i> , 2019, 135, 103623.	1.3	51

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37	Biofilm inhibition, modulation of virulence and motility properties by FeOOH nanoparticle in <i>Pseudomonas aeruginosa</i> . <i>Brazilian Journal of Microbiology</i> , 2019, 50, 791-805.	0.8	29
38	Photothermal Responsive Porous Membrane for Treatment of Infected Wound. <i>Polymers</i> , 2019, 11, 1679.	2.0	22
39	Thiol chitosan-wrapped gold nanoshells for near-infrared laser-induced photothermal destruction of antibiotic-resistant bacteria. <i>Carbohydrate Polymers</i> , 2019, 225, 115228.	5.1	50
40	A multifunctional near-infrared laser-triggered drug delivery system using folic acid conjugated chitosan oligosaccharide encapsulated gold nanorods for targeted chemo-photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3811-3825.	2.9	40
41	Design, Fabrication, and Evaluation of Multifocal Point Transducer for High-Frequency Ultrasound Applications. <i>Sensors</i> , 2019, 19, 609.	2.1	4
42	Antibiofilm and antivirulence properties of chitosan-polypyrrole nanocomposites to <i>Pseudomonas aeruginosa</i> . <i>Microbial Pathogenesis</i> , 2019, 128, 363-373.	1.3	47
43	Nanostructured hollow hydroxyapatite fabrication by carbon templating for enhanced drug delivery and biomedical applications. <i>Ceramics International</i> , 2019, 45, 17081-17093.	2.3	40
44	Chitosan-mediated facile green synthesis of size-controllable gold nanostars for effective photothermal therapy and photoacoustic imaging. <i>European Polymer Journal</i> , 2019, 118, 492-501.	2.6	29
45	Enhanced rheological behaviors of alginate hydrogels with carrageenan for extrusion-based bioprinting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 187-194.	1.5	122
46	Design of a Solar-Powered Portable ECG Device with Optimal Power Consumption and High Accuracy Measurement. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2129.	1.3	10
47	Fucoidan-Stabilized Gold Nanoparticle-Mediated Biofilm Inhibition, Attenuation of Virulence and Motility Properties in <i>Pseudomonas aeruginosa</i> PAO1. <i>Marine Drugs</i> , 2019, 17, 208.	2.2	71
48	Comparative characterization of biogenic and chemical synthesized hydroxyapatite biomaterials for potential biomedical application. <i>Materials Chemistry and Physics</i> , 2019, 228, 344-356.	2.0	58
49	The Reference Phase Correction for the Fluctuated Scanning Lines and the Slope of the Stage in Tissue Characterization by Scanning Acoustic Microscope. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4883.	1.3	0
50	Chitosan/fucoidan multilayer coating of gold nanorods as highly efficient near-infrared photothermal agents for cancer therapy. <i>Carbohydrate Polymers</i> , 2019, 211, 360-369.	5.1	68
51	Photoacoustic Monitoring of the Viability of Mesenchymal Stem Cells Labeled with Indocyanine Green. <i>Irbm</i> , 2019, 40, 45-50.	3.7	4
52	Rapid microwave-assisted synthesis of gold loaded hydroxyapatite collagen nano-bio materials for drug delivery and tissue engineering application. <i>Ceramics International</i> , 2019, 45, 2977-2988.	2.3	61
53	Nanostructured Materials and Their Biomedical Application. , 2019, , 205-227.		1
54	Fish bone peptide promotes osteogenic differentiation of MC3T3-E1 pre-osteoblasts through upregulation of MAPKs and Smad pathways activated BMP-2 receptor. <i>Cell Biochemistry and Function</i> , 2018, 36, 137-146.	1.4	48

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55	In vivo photoacoustic monitoring using 700-nm region Raman source for targeting Prussian blue nanoparticles in mouse tumor model. <i>Scientific Reports</i> , 2018, 8, 2000.	1.6	23
56	Optimized Zn-doped hydroxyapatite/doxorubicin bioceramics system for efficient drug delivery and tissue engineering application. <i>Ceramics International</i> , 2018, 44, 6062-6071.	2.3	89
57	Multimodal tumor-homing chitosan oligosaccharide-coated biocompatible palladium nanoparticles for photo-based imaging and therapy. <i>Scientific Reports</i> , 2018, 8, 500.	1.6	102
58	Synthesis of urea-pyridyl ligand functionalized mesoporous silica hybrid material for hydrophobic and hydrophilic drug delivery application. <i>Journal of Porous Materials</i> , 2018, 25, 119-128.	1.3	5
59	Photo-based PDT/PTT dual model killing and imaging of cancer cells using phycocyanin-polypyrrole nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 123, 20-30.	2.0	53
60	Marine natural pigments as potential sources for therapeutic applications. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 745-761.	5.1	69
61	Fucoidan-coated CuS nanoparticles for chemo-and photothermal therapy against cancer. <i>Oncotarget</i> , 2018, 9, 12649-12661.	0.8	48
62	Immunostimulatory Agent Evaluation: Lymphoid Tissue Extraction and Injection Route-Dependent Dendritic Cell Activation. <i>Journal of Visualized Experiments</i> , 2018, . .	0.2	1
63	Biocompatible sphere, square prism and hexagonal rod Gd ₂ O ₃ :Eu ³⁺ @SiO ₂ nanoparticles: The effect of morphology on multi-modal imaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 224-232.	2.5	8
64	Nano-hydroxyapatite bioactive glass composite scaffold with enhanced mechanical and biological performance for tissue engineering application. <i>Ceramics International</i> , 2018, 44, 15735-15746.	2.3	65
65	Biomimetic synthesis of metal- ⁶⁶ hydroxyapatite (Au-HAp, Ag-HAp, Au-Ag-HAp): Structural analysis, spectroscopic characterization and biomedical application. <i>Ceramics International</i> , 2018, 44, 20490-20500.	2.3	64
66	Biocompatible Chitosan Oligosaccharide Modified Gold Nanorods as Highly Effective Photothermal Agents for Ablation of Breast Cancer Cells. <i>Polymers</i> , 2018, 10, 232.	2.0	39
67	Coating Chitosan Thin Shells: A Facile Technique to Improve Dispersion Stability of Magnetoliposomes. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 583-590.	0.9	6
68	Photoacoustic Imaging-Guided Photothermal Therapy with Tumor-Targeting HA-FeOOH@PPy Nanorods. <i>Scientific Reports</i> , 2018, 8, 8809.	1.6	53
69	Synthesis of Fe ₃ O ₄ modified mesoporous silica hybrid for pH-responsive drug delivery and magnetic hyperthermia applications. <i>Journal of Porous Materials</i> , 2018, 25, 1251-1264.	1.3	15
70	Feasibility of photoacoustic evaluations on dual-thermal treatment of <i>ex vivo</i> bladder tumors. <i>Journal of Biophotonics</i> , 2017, 10, 577-588.	1.1	13
71	Photothermal-triggered control of sub-cellular drug accumulation using doxorubicin-loaded single-walled carbon nanotubes for the effective killing of human breast cancer cells. <i>Nanotechnology</i> , 2017, 28, 125101.	1.3	37
72	Multifunctional biocompatible chitosan-polypyrrole nanocomposites as novel agents for photoacoustic imaging-guided photothermal ablation of cancer. <i>Scientific Reports</i> , 2017, 7, 43593.	1.6	75

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73	Anti-EGFR Antibody Conjugation of Fucoidan-Coated Gold Nanorods as Novel Photothermal Ablation Agents for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14633-14646.	4.0	55
74	Chlorin e6 conjugated copper sulfide nanoparticles for photodynamic combined photothermal therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 19, 128-134.	1.3	37
75	Marine Biopolymer-Based Nanomaterials as a Novel Platform for Theranostic Applications. <i>Polymer Reviews</i> , 2017, 57, 631-667.	5.3	45
76	Magnetic hyperthermia and pH-responsive effective drug delivery to the sub-cellular level of human breast cancer cells by modified CoFe ₂ O ₄ nanoparticles. <i>Biochimie</i> , 2017, 133, 7-19.	1.3	63
77	Making unpolarized light sensitive to polarization-sensitive devices. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	0
78	Ex vivodetection of macrophages in atherosclerotic plaques using intravascular ultrasonic-photoacoustic imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, 501-516.	1.6	7
79	Rabbit model of tracheal stenosis using cylindrical diffuser. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 372-379.	1.1	10
80	Astaxanthin conjugated polypyrrole nanoparticles as a multimodal agent for photo-based therapy and imaging. <i>International Journal of Pharmaceutics</i> , 2017, 517, 216-225.	2.6	31
81	Crown ether triad modified core-shell magnetic mesoporous silica nanocarrier for pH-responsive drug delivery and magnetic hyperthermia applications. <i>New Journal of Chemistry</i> , 2017, 41, 10935-10947.	1.4	18
82	Subcellular domain-dependent molecular hierarchy of SFK and FAK in mechanotransduction and cytokine signaling. <i>Scientific Reports</i> , 2017, 7, 9033.	1.6	10
83	Synthesis of surface capped mesoporous silica nanoparticles for pH-stimuli responsive drug delivery applications. <i>MedChemComm</i> , 2017, 8, 1797-1805.	3.5	19
84	Polypyrrole-methylene blue nanoparticles as a single multifunctional nanoplatform for near-infrared photo-induced therapy and photoacoustic imaging. <i>RSC Advances</i> , 2017, 7, 35027-35037.	1.7	39
85	Synthesis and In Vitro Performance of Polypyrrole-Coated Iron-Platinum Nanoparticles for Photothermal Therapy and Photoacoustic Imaging. <i>Nanoscale Research Letters</i> , 2017, 12, 570.	3.1	34
86	Fucoidan-coated core-shell magnetic mesoporous silica nanoparticles for chemotherapy and magnetic hyperthermia-based thermal therapy applications. <i>New Journal of Chemistry</i> , 2017, 41, 15334-15346.	1.4	39
87	Biocompatible astaxanthin as novel contrast agent for biomedical imaging. <i>Journal of Biophotonics</i> , 2017, 10, 1053-1061.	1.1	16
88	Doxorubicin-fucoidan-gold nanoparticles composite for dual-chemo-photothermal treatment on eye tumors. <i>Oncotarget</i> , 2017, 8, 113719-113733.	0.8	44
89	Magnetic hydroxyapatite: a promising multifunctional platform for nanomedicine application. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 8389-8410.	3.3	79
90	Synergistic Antibacterial Effects of Chitosan-Caffeic Acid Conjugate against Antibiotic-Resistant Acne-Related Bacteria. <i>Marine Drugs</i> , 2017, 15, 167.	2.2	60

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91	Hydroxyapatite Coated Iron Oxide Nanoparticles: A Promising Nanomaterial for Magnetic Hyperthermia Cancer Treatment. <i>Nanomaterials</i> , 2017, 7, 426.	1.9	105
92	Polarimetric Fiber Vibration Sensor Based on Polarization-Diversified Loop Using Short Polarization-Maintaining Photonic Crystal Fiber. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8307-8312.	0.9	2
93	Chlorin e6 conjugated silica nanoparticles for targeted and effective photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 19, 212-220.	1.3	63
94	Laminarin promotes anti-cancer immunity by the maturation of dendritic cells. <i>Oncotarget</i> , 2017, 8, 38554-38567.	0.8	45
95	Lipopolysaccharide-coated CuS nanoparticles promoted anti-cancer and anti-metastatic effect by immuno-photothermal therapy. <i>Oncotarget</i> , 2017, 8, 105584-105595.	0.8	24
96	Cytotoxic Induction and Photoacoustic Imaging of Breast Cancer Cells Using Astaxanthin-Reduced Gold Nanoparticles. <i>Nanomaterials</i> , 2016, 6, 78.	1.9	25
97	Effect of multiple sweeping on ablation performance during <i>in vivo</i> laser nephrectomy. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 616-623.	1.1	4
98	MAGE-A1 ⁺ expression in patients with head and neck squamous cell carcinoma: impact on clinical patterns and oncologic outcomes. <i>International Journal of Clinical Oncology</i> , 2016, 21, 875-882.	1.0	10
99	Theoretical development of a magnetic force and an induced motion in elastic media for a magneto-motive technique. <i>Journal of the Korean Physical Society</i> , 2016, 69, 461-471.	0.3	2
100	Synthesis of amine-polyglycidol functionalised Fe ₃ O ₄ @SiO ₂ nanocomposites for magnetic hyperthermia, pH-responsive drug delivery, and bioimaging applications. <i>RSC Advances</i> , 2016, 6, 110444-110453.	1.7	34
101	Paclitaxel-loaded chitosan oligosaccharide-stabilized gold nanoparticles as novel agents for drug delivery and photoacoustic imaging of cancer cells. <i>International Journal of Pharmaceutics</i> , 2016, 511, 367-379.	2.6	110
102	Doxorubicin-loaded fucoidan capped gold nanoparticles for drug delivery and photoacoustic imaging. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 578-588.	3.6	149
103	Fabrication, characterization and determination of biological activities of poly(μ -caprolactone)/chitosan-caffeic acid composite fibrous mat for wound dressing application. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1549-1558.	3.6	43
104	Bidirectional laser triggering in highly-resistive vanadium-dioxide thin films by using a 966-nm pump laser diode. <i>Journal of the Korean Physical Society</i> , 2016, 68, 323-328.	0.3	4
105	Anti-allergic effects of a nonameric peptide isolated from the intestine gastrointestinal digests of abalone (<i>Haliotis discus hannai</i>) in activated HMC-1 human mast cells. <i>International Journal of Molecular Medicine</i> , 2016, 37, 243-250.	1.8	16
106	Marine microorganisms as potential biofactories for synthesis of metallic nanoparticles. <i>Critical Reviews in Microbiology</i> , 2016, 42, 1007-1019.	2.7	80
107	Marine polysaccharide-based nanomaterials as a novel source of nanobiotechnological applications. <i>International Journal of Biological Macromolecules</i> , 2016, 82, 315-327.	3.6	158
108	Production of a Novel Fucoidanase for the Green Synthesis of Gold Nanoparticles by <i>Streptomyces</i> sp. and Its Cytotoxic Effect on HeLa Cells. <i>Marine Drugs</i> , 2015, 13, 6818-6837.	2.2	52

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109	Intravascular ultrasonic photoacoustic (IVUP) endoscope with 2.2-mm diameter catheter for medical imaging. <i>Computerized Medical Imaging and Graphics</i> , 2015, 45, 57-62.	3.5	19
110	Enhancement of high-resolution photoacoustic imaging with indocyanine green-conjugated carbon nanotubes. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 07HF04.	0.8	14
111	Memristive states in vanadium-dioxide-based planar devices stimulated by 966 nm infrared laser pulses. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 102601.	0.8	6
112	Thermoelastic displacement measured by DP-OCT for detecting vulnerable plaques. <i>Biomedical Optics Express</i> , 2014, 5, 474.	1.5	2
113	Feasibility study on photoacoustic guidance for high-intensity focused ultrasound-induced hemostasis. <i>Journal of Biomedical Optics</i> , 2014, 19, 105010.	1.4	17
114	<i>In vivo</i> non-ionizing photoacoustic mapping of sentinel lymph nodes and bladders with ICG-enhanced carbon nanotubes. <i>Physics in Medicine and Biology</i> , 2012, 57, 7853-7862.	1.6	79
115	Controlling the optimum dose of AMPTS functionalized-magnetite nanoparticles for hyperthermia cancer therapy. <i>Applied Nanoscience (Switzerland)</i> , 2011, 1, 237-246.	1.6	23
116	Inline Conversion Between Transmission and Reflection Spectra of Fiber Bragg Grating Using Polarization-Diversity Loop Structure. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1473-1475.	1.3	6