

Dal-Hee Min

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117
papers

8,058
citations

44
h-index

89
g-index

121
ext. papers

8,764
ext. citations

10.2
avg, IF

6.23
L-index

#	Paper	IF	Citations
117	Biomedical applications of graphene and graphene oxide. <i>Accounts of Chemical Research</i> , 2013 , 46, 2211-2243	24.3	1179
116	Prospects and challenges of graphene in biomedical applications. <i>Advanced Materials</i> , 2013 , 25, 2258-68	24	497
115	Behaviors of NIH-3T3 fibroblasts on graphene/carbon nanotubes: proliferation, focal adhesion, and gene transfection studies. <i>ACS Nano</i> , 2010 , 4, 6587-98	16.7	358
114	Targeted quantum dot conjugates for siRNA delivery. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1391-6	6.3	325
113	Selective immobilization of proteins to self-assembled monolayers presenting active site-directed capture ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5048-52	11.5	302
112	Facile synthesis of monodispersed mesoporous silica nanoparticles with ultralarge pores and their application in gene delivery. <i>ACS Nano</i> , 2011 , 5, 3568-76	16.7	288
111	Quantitative and multiplexed microRNA sensing in living cells based on peptide nucleic acid and nano graphene oxide (PANGO). <i>ACS Nano</i> , 2013 , 7, 5882-91	16.7	252
110	Biosensors based on graphene oxide and its biomedical application. <i>Advanced Drug Delivery Reviews</i> , 2016 , 105, 275-287	18.5	218
109	A graphene-based platform for the assay of duplex-DNA unwinding by helicase. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5703-7	16.4	207
108	Durable large-area thin films of graphene/carbon nanotube double layers as a transparent electrode. <i>Langmuir</i> , 2009 , 25, 11302-6	4	182
107	Synergistic effect of graphene oxide/MWCNT films in laser desorption/ionization mass spectrometry of small molecules and tissue imaging. <i>ACS Nano</i> , 2011 , 5, 4550-61	16.7	172
106	Highly Biocompatible Carbon Nanodots for Simultaneous Bioimaging and Targeted Photodynamic Therapy In Vitro and In Vivo. <i>Advanced Functional Materials</i> , 2014 , 24, 5781-5789	15.6	170
105	Biocompatible reduced graphene oxide prepared by using dextran as a multifunctional reducing agent. <i>Chemical Communications</i> , 2011 , 47, 3195-7	5.8	157
104	Efficient functional delivery of siRNA using mesoporous silica nanoparticles with ultralarge pores. <i>Small</i> , 2012 , 8, 1752-61	11	135
103	Functional delivery of siRNA in mice using dendriworms. <i>ACS Nano</i> , 2009 , 3, 2495-504	16.7	130
102	Profiling kinase activities by using a peptide chip and mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5973-7	16.4	130
101	Chemical screening by mass spectrometry to identify inhibitors of anthrax lethal factor. <i>Nature Biotechnology</i> , 2004 , 22, 717-23	44.5	126

100	In vivo tumor cell targeting with "click" nanoparticles. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1570-8	6.3	125
99	Nanoparticle self-assembly gated by logical proteolytic triggers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6064-5	16.4	116
98	Protease-triggered unveiling of bioactive nanoparticles. <i>Small</i> , 2008 , 4, 1307-12	11	104
97	One-pot synthesis of multifunctional Au@graphene oxide nanocolloid core@shell nanoparticles for Raman bioimaging, photothermal, and photodynamic therapy. <i>Small</i> , 2015 , 11, 2527-35	11	103
96	Peptide arrays: towards routine implementation. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 554-8	9.7	99
95	Laser desorption/ionization mass spectrometric assay for phospholipase activity based on graphene oxide/carbon nanotube double-layer films. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14714-7	16.4	98
94	The direct growth of gold rods on graphene thin films. <i>Chemical Communications</i> , 2010 , 46, 3185-7	5.8	95
93	Desorption of single-stranded nucleic acids from graphene oxide by disruption of hydrogen bonding. <i>Analyst, The</i> , 2013 , 138, 1745-9	5	91
92	Graphene oxide sheath on Ag nanoparticle/graphene hybrid films as an antioxidative coating and enhancer of surface-enhanced Raman scattering. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6545-51	9.5	86
91	A new assay for endonuclease/methyltransferase activities based on graphene oxide. <i>Analytical Chemistry</i> , 2011 , 83, 8906-12	7.8	85
90	Emerging Approaches for Graphene Oxide Biosensor. <i>Analytical Chemistry</i> , 2017 , 89, 232-248	7.8	84
89	The effective nuclear delivery of doxorubicin from dextran-coated gold nanoparticles larger than nuclear pores. <i>Biomaterials</i> , 2013 , 34, 3503-10	15.6	76
88	Facile synthesis and intraparticle self-catalytic oxidation of dextran-coated hollow Au-Ag nanoshell and its application for chemo-thermotherapy. <i>ACS Nano</i> , 2014 , 8, 467-75	16.7	72
87	Influence of surface functionalization on the growth of gold nanostructures on graphene thin films. <i>Langmuir</i> , 2010 , 26, 13065-70	4	70
86	Label-free detection of protein-protein interactions on biochips. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5480-3	16.4	67
85	Direct cellular delivery of human proteasomes to delay tau aggregation. <i>Nature Communications</i> , 2014 , 5, 5633	17.4	64
84	Deoxyribozyme-loaded nano-graphene oxide for simultaneous sensing and silencing of the hepatitis C virus gene in liver cells. <i>Chemical Communications</i> , 2013 , 49, 8241-3	5.8	63
83	Preparation of scrolled graphene oxides with multi-walled carbon nanotube templates. <i>Carbon</i> , 2010 , 48, 4283-4288	10.4	62

82	Immobile Artificial Metalloproteinase Containing Both Catalytic and Binding Groups. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12008-12016	16.4	61
81	Discovery of hepatitis C virus NS3 helicase inhibitors by a multiplexed, high-throughput helicase activity assay based on graphene oxide. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2340-4	16.4	60
80	Functional delivery of DNAzyme with iron oxide nanoparticles for hepatitis C virus gene knockdown. <i>Biomaterials</i> , 2012 , 33, 2754-61	15.6	58
79	A method for connecting solution-phase enzyme activity assays with immobilized format analysis by mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 3923-9	7.8	57
78	Spherically-clustered porous Au-Ag alloy nanoparticle prepared by partial inhibition of galvanic replacement and its application for efficient multimodal therapy. <i>ACS Nano</i> , 2015 , 9, 2696-703	16.7	56
77	Highly efficient gene silencing and bioimaging based on fluorescent carbon dots in vitro and in vivo. <i>Nano Research</i> , 2017 , 10, 503-519	10	50
76	Barrier to autointegration factor 1, procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3, and splicing factor 3b subunit 4 as early-stage cancer decision markers and drivers of hepatocellular carcinoma. <i>Hepatology</i> , 2018 , 67, 1360-1377	11.2	47
75	In-depth investigation of the interaction between DNA and nano-sized graphene oxide. <i>Carbon</i> , 2016 , 97, 92-98	10.4	46
74	Preparation of the hybrid film of poly(allylamine hydrochloride)-functionalized graphene oxide and gold nanoparticle and its application for laser-induced desorption/ionization of small molecules. <i>Langmuir</i> , 2012 , 28, 4453-8	4	45
73	Facile synthesis of robust and biocompatible gold nanoparticles. <i>Chemical Communications</i> , 2010 , 46, 583-5	5.8	40
72	A simple fluorometric assay for DNA exonuclease activity based on graphene oxide. <i>Analyst, The</i> , 2012 , 137, 2024-6	5	39
71	The Structural Influence of Graphene Oxide on Its Fragmentation during Laser Desorption/Ionization Mass Spectrometry for Efficient Small-Molecule Analysis. <i>Chemistry - A European Journal</i> , 2015 , 21, 7217-23	4.8	38
70	Revisiting of Pd Nanoparticles in Cancer Treatment: All-Round Excellence of Porous Pd Nanoplates in Gene-Thermo Combinational Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13819-13828	9.5	36
69	Fabrication of alternating multilayer films of graphene oxide and carbon nanotube and its application in mechanistic study of laser desorption/ionization of small molecules. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2088-95	9.5	36
68	Morphology-Controlled Synthesis of Rhodium Nanoparticles for Cancer Phototherapy. <i>ACS Nano</i> , 2018 , 12, 6997-7008	16.7	35
67	Highly efficient photocatalytic performances of SnO ₂ -deposited ZnS nanorods based on interfacial charge transfer. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 433-442	21.8	34
66	Direct, sequence-specific detection of dsDNA based on peptide nucleic acid and graphene oxide without requiring denaturation. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 140-4	11.8	34
65	Recent Advances in RNA Therapeutics and RNA Delivery Systems Based on Nanoparticles. <i>Advanced Therapeutics</i> , 2018 , 1, 1800065	4.9	32

64	UV protection of reduced graphene oxide films by TiO ₂ nanoparticle incorporation. <i>Nanoscale</i> , 2013 , 5, 3638-42	7.7	32
63	On-demand electrochemical activation of the click reaction on self-assembled monolayers on gold presenting masked acetylene groups. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16718-21	16.4	32
62	Mass spectrometry assisted lithography for the patterning of cell adhesion ligands on self-assembled monolayers. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3507-11	16.4	29
61	Identification of a resveratrol tetramer as a potent inhibitor of hepatitis C virus helicase. <i>British Journal of Pharmacology</i> , 2016 , 173, 191-211	8.6	29
60	Mechanistic study of laser desorption/ionization of small molecules on graphene oxide multilayer films. <i>Langmuir</i> , 2014 , 30, 12675-83	4	28
59	Nonrecurring Circuit Nanozymatic Enhancement of Hypoxic Pancreatic Cancer Phototherapy Using Speckled Ru-Te Hollow Nanorods. <i>ACS Nano</i> , 2020 , 14, 4383-4394	16.7	26
58	Reducing Agent-Assisted Excessive Galvanic Replacement Mediated Seed-Mediated Synthesis of Porous Gold Nanoplates and Highly Efficient Gene-Thermo Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35268-35278	9.5	26
57	Fucoidan-coated coral-like Pt nanoparticles for computed tomography-guided highly enhanced synergistic anticancer effect against drug-resistant breast cancer cells. <i>Nanoscale</i> , 2019 , 11, 15173-15183	7.7	25
56	MicroRNA-Responsive Drug Release System for Selective Fluorescence Imaging and Photodynamic Therapy In Vivo. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2386-95	10.1	24
55	Cytoprotective effects of graphene oxide for mammalian cells against internalization of exogenous materials. <i>Nanoscale</i> , 2013 , 5, 1669-77	7.7	24
54	Reshaping nanocrystals for tunable plasmonic substrates. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5038-43	9.5	23
53	Synthesis of porous Pd nanoparticles by therapeutic chaga extract for highly efficient tri-modal cancer treatment. <i>Nanoscale</i> , 2018 , 10, 19810-19817	7.7	23
52	Functional manganese dioxide nanosheet for targeted photodynamic therapy and bioimaging in vitro and in vivo. <i>2D Materials</i> , 2017 , 4, 025069	5.9	22
51	A biosensor for the detection of single base mismatches in microRNA. <i>Chemical Communications</i> , 2015 , 51, 14597-600	5.8	22
50	Graphene oxide for fluorescence-mediated enzymatic activity assays. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2452-2460	7.3	22
49	MAP4-regulated dynein-dependent trafficking of BTN3A1 controls the TBK1-IRF3 signaling axis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14390-14395	11.5	21
48	Mediating ordered assembly of gold nanorods by controlling droplet evaporation modes for surface enhanced Raman scattering. <i>RSC Advances</i> , 2014 , 4, 50091-50096	3.7	21
47	Hydrothermal Galvanic-Replacement-Tethered Synthesis of Ir-Ag-IrO Nanoplates for Computed Tomography-Guided Multiwavelength Potent Thermodynamic Cancer Therapy. <i>ACS Nano</i> , 2019 , 13, 3434-3447	16.7	20

46	BSA as additive: A simple strategy for practical applications of PNA in bioanalysis. <i>Biosensors and Bioelectronics</i> , 2015 , 69, 167-73	11.8	20
45	Liposomal co-delivery-based quantitative evaluation of chemosensitivity enhancement in breast cancer stem cells by knockdown of GRP78/CLU. <i>Journal of Liposome Research</i> , 2019 , 29, 44-52	6.1	20
44	Design rules for a tunable merged-tip microneedle. <i>Microsystems and Nanoengineering</i> , 2018 , 4, 29	7.7	20
43	Surface confined successive growth of silver nanoplates on a solid substrate with tunable surface plasmon resonance. <i>RSC Advances</i> , 2014 , 4, 6950	3.7	19
42	Investigation on vascular cytotoxicity and extravascular transport of cationic polymer nanoparticles using perfusable 3D microvessel model. <i>Acta Biomaterialia</i> , 2018 , 76, 154-163	10.8	19
41	Development of Dual-Pore Coexisting Branched Silica Nanoparticles for Efficient Gene-Chemo Cancer Therapy. <i>Small</i> , 2018 , 14, 1702564	11	17
40	Highly precise plasmonic and colorimetric sensor based on enzymatic etching of nanospheres for the detection of blood and urinary glucose. <i>RSC Advances</i> , 2015 , 5, 14330-14332	3.7	17
39	The interfacing structural effect of Ag/graphene oxide nanohybrid films on surface enhanced Raman scattering. <i>Nanoscale</i> , 2017 , 9, 5872-5878	7.7	16
38	A new helicase assay based on graphene oxide for anti-viral drug development. <i>Molecules and Cells</i> , 2013 , 35, 269-73	3.5	16
37	Intrinsic Peroxidase-Mimicking Ir Nanoplates for Nanozymatic Anticancer and Antibacterial Treatment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41062-41070	9.5	16
36	Synthesis of partially dextran-coated gold nanoworms and anisotropic structure based dual-strategic cargo conjugation for efficient combinational cancer therapy. <i>Chemical Communications</i> , 2017 , 53, 1385-1388	5.8	13
35	Highly Efficient and Rapid Neural Differentiation of Mouse Embryonic Stem Cells Based on Retinoic Acid Encapsulated Porous Nanoparticle. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34634-34640	9.5	13
34	Suppression of hepatitis C virus genome replication in cells with RNA-cleaving DNA enzymes and short-hairpin RNA. <i>Oligonucleotides</i> , 2010 , 20, 285-96		13
33	Discovery of direct-acting antiviral agents with a graphene-based fluorescent nanosensor. <i>Science Advances</i> , 2020 , 6, eaaz8201	14.3	12
32	In-depth study on the gene silencing capability of silica nanoparticles with different pore sizes: degree and duration of RNA interference. <i>RSC Advances</i> , 2016 , 6, 27143-27150	3.7	12
31	Dual-Wavelength Irradiation and Dox Delivery for -Cancer Cell Ablation with Photocatalytic Pr Doped TiO ₂ /NGO -Hybrid Nanocomposite. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1833-40	10.1	12
30	Synthesis of biologically-active reduced graphene oxide by using fucoidan as a multifunctional agent for combination cancer therapy. <i>Nanotechnology</i> , 2018 , 29, 475604	3.4	12
29	High-throughput chemical screening to discover new modulators of microRNA expression in living cells by using graphene-based biosensor. <i>Scientific Reports</i> , 2018 , 8, 11413	4.9	11

28	3D Microfluidic Platform and Tumor Vascular Mapping for Evaluating Anti-Angiogenic RNAi-Based Nanomedicine. <i>ACS Nano</i> , 2021 , 15, 338-350	16.7	11
27	Plant-Derived Purification, Chemical Synthesis, and In Vitro/In Vivo Evaluation of a Resveratrol Dimer, Viniferin, as an HCV Replication Inhibitor. <i>Viruses</i> , 2019 , 11,	6.2	10
26	A robust and quantitative assay platform for multiplexed, high throughput screening of protein kinase inhibitors. <i>Chemical Communications</i> , 2016 , 52, 12112-12115	5.8	9
25	Synthesis of Fluorescent Au Nanocrystals-Silica Hybrid Nanocomposite (FLASH) with Enhanced Optical Features for Bioimaging and Photodynamic Activity. <i>Langmuir</i> , 2018 , 34, 173-178	4	8
24	Self-assembled Monolayer Mediated Surface Environment Modification of Poly(vinylpyrrolidone)-Coated Hollow Au-Ag Nanoshells for Enhanced Loading of Hydrophobic Drug and Efficient Multimodal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12789-96	9.5	7
23	Graphene oxide-based molecular diagnostic biosensor for simultaneous detection of Zika and dengue viruses. <i>2D Materials</i> , 2020 , 7, 044001	5.9	7
22	RNAi nanotherapy for fibrosis: highly durable knockdown of CTGF/CCN-2 using siRNA-DegradaBALL (LEM-S401) to treat skin fibrotic diseases. <i>Nanoscale</i> , 2020 , 12, 6385-6393	7.7	7
21	Facile one-pot photosynthesis of stable Ag@graphene oxide nanocolloid core@shell nanoparticles with sustainable localized surface plasmon resonance properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10016-10022	7.1	7
20	Quantitation of surface-bound proteins on biochips using MALDI-TOF MS. <i>Analytical Sciences</i> , 2011 , 27, 1127-31	1.7	7
19	A FRET assay for the quantitation of inhibitors of exonuclease EcoRV by using parchment paper inkjet-printed with graphene oxide and FAM-labelled DNA. <i>Mikrochimica Acta</i> , 2019 , 186, 211	5.8	6
18	Large-Scale 3D Optical Mapping and Quantitative Analysis of Nanoparticle Distribution in Tumor Vascular Microenvironment. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1784-1794	6.3	6
17	Fluorometric Viral miRNA Nanosensor for Diagnosis of Productive (Lytic) Human Cytomegalovirus Infection in Living Cells. <i>ACS Sensors</i> , 2021 , 6, 815-822	9.2	5
16	Graphene oxide-based fluorescent biosensors and their biomedical applications in diagnosis and drug discovery. <i>Chemical Communications</i> , 2021 , 57, 9820-9833	5.8	5
15	Environmentally Friendly Synthesis of Au-Te-Clustered Nanoworms via Galvanic Replacement for Wavelength-Selective Combination Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5511-5519	9.5	4
14	Modus Operandi of Simultaneous Covering Synthesis from Precursor Heterogeneity for Shelled Nanorods for Multipotent Cancer Theranostics. <i>Advanced Functional Materials</i> , 2020 , 30, 1907203	15.6	4
13	Enhancing the of Performance of Lithium-Sulfur Batteries through Electrochemical Impregnation of Sulfur in Hierarchical Mesoporous Carbon Nanoparticles. <i>ChemElectroChem</i> , 2020 , 7, 3653-3655	4.3	4
12	A graphene oxide-based fluorescent nanosensor to identify antiviral agents via a drug repurposing screen. <i>Biosensors and Bioelectronics</i> , 2021 , 183, 113208	11.8	4
11	Direct Monitoring of Cancer-Associated mRNAs in Living Cells to Evaluate the Therapeutic RNAi Efficiency Using Fluorescent Nanosensor. <i>ACS Sensors</i> , 2019 , 4, 1174-1179	9.2	3

10	A fluorescent nanobiosensor for the facile analysis of mA RNA demethylase activity. <i>Chemical Communications</i> , 2020 , 56, 4716-4719	5.8	3
9	Photodynamic Therapy: Highly Biocompatible Carbon Nanodots for Simultaneous Bioimaging and Targeted Photodynamic Therapy In Vitro and In Vivo (Adv. Funct. Mater. 37/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 5774-5774	15.6	3
8	Osmium-Tellurium Nanozymes for Pentamodal Combinatorial Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44124-44135	9.5	3
7	Quantum-dot nanoprobe and AOTF based cross talk eliminated six color imaging of biomolecules in cellular system. <i>Analytica Chimica Acta</i> , 2017 , 985, 166-174	6.6	2
6	Cancer Treatment: Dual-Wavelength Irradiation and Dox Delivery for Cancer Cell Ablation with Photocatalytic Pr Doped TiO ₂ /NGO Hybrid Nanocomposite (Adv. Healthcare Mater. 12/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 1736-1736	10.1	2
5	Discovery of Hepatitis C Virus NS3 Helicase Inhibitors by a Multiplexed, High-Throughput Helicase Activity Assay Based on Graphene Oxide. <i>Angewandte Chemie</i> , 2013 , 125, 2396-2400	3.6	2
4	Nanoparticle delivery of recombinant IL-2 (BALLkine-2) achieves durable tumor control with less systemic adverse effects in cancer immunotherapy. <i>Biomaterials</i> , 2021 , 280, 121257	15.6	2
3	Suppression of Hepatitis C Viral Genome Replication with RNA-Cleaving Deoxyribozyme 2012 , 429-452		2
2	Identification of a Direct-Acting Antiviral Agent Targeting RNA Helicase via a Graphene Oxide Nanobiosensor. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25715-25726	9.5	2
1	Non-viral, direct neuronal reprogramming from human fibroblast using a polymer-functionalized nanodot. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 32, 102316	6	2