Kostas Kostarelos

List of Publications by Year in Descending Order

293 papers	26,949 citations	81 h-index	159 g-index
332 ext. papers	29,762 ext. citations	11.1 avg, IF	7.45 L-index

#	Paper	IF	Citations
293	Mild hyperthermia accelerates doxorubicin clearance from tumour-extravasated temperature-sensitive liposomes.. *Nanotheranostics*, **2022**, 6, 230-242	5.6	1
292	Innate but Not Adaptive Immunity Regulates Lung Recovery from Chronic Exposure to Graphene Oxide Nanosheets.. *Advanced Science*, **2022**, e2104559	13.6	1
291	Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. *Journal of Hazardous Materials*, **2022**, 435, 129053	12.8	2
290	Nanoparticle-Enabled Enrichment of Longitudinal Blood Proteomic Fingerprints in Alzheimer's Disease. *ACS Nano*, **2021**, 15, 7357-7369	16.7	5
289	Graphene oxide prevents lateral amygdala dysfunctional synaptic plasticity and reverts long lasting anxiety behavior in rats. *Biomaterials*, **2021**, 271, 120749	15.6	3
288	Graphene Oxide Nanosheets Interact and Interfere with SARS-CoV-2 Surface Proteins and Cell Receptors to Inhibit Infectivity. *Small*, **2021**, 17, e2101483	11	18
287	Transient reprogramming of postnatal cardiomyocytes to a dedifferentiated state. *PLoS ONE*, **2021**, 16, e0251054	3.7	0
286	Shedding plasma membrane vesicles induced by graphene oxide nanoflakes in brain cultured astrocytes. *Carbon*, **2021**, 176, 458-469	10.4	1
285	Viscoelastic surface electrode arrays to interface with viscoelastic tissues. *Nature Nanotechnology*, **2021**, 16, 1019-1029	28.7	27
284	Adenoviral Mediated Delivery of OSKM Factors Induces Partial Reprogramming of Mouse Cardiac Cells In Vivo. *Advanced Therapeutics*, **2021**, 4, 2000141	4.9	4
283	Deep Tissue Translocation of Graphene Oxide Sheets in Human Glioblastoma 3D Spheroids and an Orthotopic Xenograft Model. *Advanced Therapeutics*, **2021**, 4, 2000109	4.9	5
282	Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. *Advanced Materials*, **2021**, 33, e2002047	24	97
281	Enhanced liquid phase exfoliation of graphene in water using an insoluble bis-pyrene stabiliser. *Faraday Discussions*, **2021**, 227, 46-60	3.6	6
280	Nanotools for Sepsis Diagnosis and Treatment. *Advanced Healthcare Materials*, **2021**, 10, e2001378	10.1	23
279	Dynamic interactions and intracellular fate of label-free, thin graphene oxide sheets within mammalian cells: role of lateral sheet size. *Nanoscale Advances*, **2021**, 3, 4166-4185	5.1	4
278	Graphene active sensor arrays for long-term and wireless mapping of wide frequency band epicortical brain activity. *Nature Communications*, **2021**, 12, 211	17.4	14
277	Reasons for success and lessons learnt from nanoscale vaccines against COVID-19. *Nature Nanotechnology*, **2021**, 16, 843-850	28.7	10

276	The impact of graphene oxide sheet lateral dimensions on their pharmacokinetic and tissue distribution profiles in mice. *Journal of Controlled Release*, **2021**, 338, 330-340	11.7	3
275	Intracerebral Injection of Graphene Oxide Nanosheets Mitigates Microglial Activation Without Inducing Acute Neurotoxicity: A Pilot Comparison to Other Nanomaterials. *Small*, **2020**, 16, e2004029	11	7
274	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. *JPhys Materials*, **2020**, 3, 034009	4.2	20
273	Size-Dependent Pulmonary Impact of Thin Graphene Oxide Sheets in Mice: Toward Safe-by-Design. *Advanced Science*, **2020**, 7, 1903200	13.6	19
272	Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. *Nanoscale*, **2020**, 12, 12383-12394	7.7	13
271	Nano-scavengers for blood biomarker discovery in ovarian carcinoma. *Nano Today*, **2020**, 34, 100901	17.9	9
270	Graphene oxide nanosheets modulate spinal glutamatergic transmission and modify locomotor behaviour in an in vivo zebrafish model. *Nanoscale Horizons*, **2020**, 5, 1250-1263	10.8	5
269	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. *Nature Nanotechnology*, **2020**, 15, 164-166	28.7	40
268	Thin graphene oxide nanoflakes modulate glutamatergic synapses in the amygdala cultured circuits: Exploiting synaptic approaches to anxiety disorders. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2020**, 26, 102174	6	3
267	Next-Generation Sequencing Reveals Differential Responses to Acute versus Long-Term Exposures to Graphene Oxide in Human Lung Cells. *Small*, **2020**, 16, e1907686	11	10
266	The challenge of recognising sepsis: Future nanotechnology solutions. *Journal of the Intensive Care Society*, **2020**, 21, 241-246	1.6	7
265	Grouping all carbon nanotubes into a single substance category is scientifically unjustified. *Nature Nanotechnology*, **2020**, 15, 164	28.7	45
264	Optimizing the Geometry of Photoacoustically Active Gold Nanoparticles for Biomedical Imaging. *ACS Photonics*, **2020**, 7, 646-652	6.3	29
263	Palladium catalysed C-H arylation of pyrenes: access to a new class of exfoliating agents for water-based graphene dispersions. *Chemical Science*, **2020**, 11, 2472-2478	9.4	5
262	Production and processing of graphene and related materials. *2D Materials*, **2020**, 7, 022001	5.9	179
261	Protein corona fingerprinting to differentiate sepsis from non-infectious systemic inflammation. *Nanoscale*, **2020**, 12, 10240-10253	7.7	23
260	Nanoscale nights of COVID-19. *Nature Nanotechnology*, **2020**, 15, 343-344	28.7	36
259	Promises, Facts and Challenges for Carbon Nanotubes in Imaging and Therapeutics **2020**, 383-402		

258	Multiparametric Profiling of Engineered Nanomaterials: Unmasking the Surface Coating Effect. *Advanced Science*, **2020**, 7, 2002221	13.6	11
257	Splenic Capture and Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. *ACS Nano*, **2020**, 14, 10168-10186	16.7	30
256	Nitric oxide-dependent biodegradation of graphene oxide reduces inflammation in the gastrointestinal tract. *Nanoscale*, **2020**, 12, 16730-16737	7.7	11
255	Nose-to-Brain Translocation and Cerebral Biodegradation of Thin Graphene Oxide Nanosheets. *Cell Reports Physical Science*, **2020**, 1, 100176	6.1	8
254	The biomolecule corona of lipid nanoparticles contains circulating cell-free DNA. *Nanoscale Horizons*, **2020**, 5, 1476-1486	10.8	5
253	Enhanced Intraliposomal Metallic Nanoparticle Payload Capacity Using Microfluidic-Assisted Self-Assembly. *Langmuir*, **2019**, 35, 13318-13331	4	9
252	Exposure to graphene oxide sheets alters the expression of reference genes used for real-time RT-qPCR normalization. *Scientific Reports*, **2019**, 9, 12520	4.9	8
251	Human In Vivo Corona: The Human In Vivo Biomolecule Corona onto PEGylated Liposomes: A Proof-of-Concept Clinical Study (Adv. Mater. 4/2019). *Advanced Materials*, **2019**, 31, 1970027	24	1
250	Biocompatibility and biodegradability of 2D materials: graphene and beyond. *Chemical Communications*, **2019**, 55, 5540-5546	5.8	108
249	3D Organotypic Spinal Cultures: Exploring Neuron and Neuroglia Responses Upon Prolonged Exposure to Graphene Oxide. *Frontiers in Systems Neuroscience*, **2019**, 13, 1	3.5	19
248	Graphene Oxide Flakes Tune Excitatory Neurotransmission in Vivo by Targeting Hippocampal Synapses. *Nano Letters*, **2019**, 19, 2858-2870	11.5	26
247	Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. *Molecular Systems Design and Engineering*, **2019**, 4, 503-510	4.6	10
246	Graphene oxide: A growth factor delivery carrier to enhance chondrogenic differentiation of human mesenchymal stem cells in 3D hydrogels. *Acta Biomaterialia*, **2019**, 96, 271-280	10.8	58
245	Graphene oxide as a 2D platform for complexation and intracellular delivery of siRNA. *Nanoscale*, **2019**, 11, 13863-13877	7.7	18
244	Thermal monitoring during photothermia: hybrid probes for simultaneous plasmonic heating and near-infrared optical nanothermometry. *Theranostics*, **2019**, 9, 7298-7312	12.1	18
243	Selective Liposomal Transport through Blood Brain Barrier Disruption in Ischemic Stroke Reveals Two Distinct Therapeutic Opportunities. *ACS Nano*, **2019**, 13, 12470-12486	16.7	32
242	Hampering brain tumor proliferation and migration using peptide nanofiber:si/ complexes. *Nanomedicine*, **2019**, 14, 3127-3142	5.6	3
241	Non-viral, Tumor-free Induction of Transient Cell Reprogramming in Mouse Skeletal Muscle to Enhance Tissue Regeneration. *Molecular Therapy*, **2019**, 27, 59-75	11.7	9

240	A novel scavenging tool for cancer biomarker discovery based on the blood-circulating nanoparticle protein corona. *Biomaterials*, **2019**, 188, 118-129	15.6	43
239	Non-cytotoxic carbon nanocapsules synthesized via one-pot filling and end-closing of multi-walled carbon nanotubes. *Carbon*, **2019**, 141, 782-793	10.4	9
238	The Human In Vivo Biomolecule Corona onto PEGylated Liposomes: A Proof-of-Concept Clinical Study. *Advanced Materials*, **2019**, 31, e1803335	24	68
237	Formation of protein corona in vivo affects drug release from temperature-sensitive liposomes. *Journal of Controlled Release*, **2018**, 276, 157-167	11.7	47
236	Graphene Oxide Elicits Membrane Lipid Changes and Neutrophil Extracellular Trap Formation. *CheM*, **2018**, 4, 334-358	16.2	35
235	Cytokine Profiling of Primary Human Macrophages Exposed to Endotoxin-Free Graphene Oxide: Size-Independent NLRP3 Inflammasome Activation. *Advanced Healthcare Materials*, **2018**, 7, 1700815	10.1	48
234	Live Imaging of Label-Free Graphene Oxide Reveals Critical Factors Causing Oxidative-Stress-Mediated Cellular Responses. *ACS Nano*, **2018**, 12, 1373-1389	16.7	54
233	Impact of graphene oxide on human placental trophoblast viability, functionality and barrier integrity. *2D Materials*, **2018**, 5, 035014	5.9	9
232	Covalent chemical functionalization enhances the biodegradation of graphene oxide. *2D Materials*, **2018**, 5, 015020	5.9	50
231	A blueprint for the synthesis and characterisation of thin graphene oxide with controlled lateral dimensions for biomedicine. *2D Materials*, **2018**, 5, 035020	5.9	46
230	Graphene oxide is degraded by neutrophils and the degradation products are non-genotoxic. *Nanoscale*, **2018**, 10, 1180-1188	7.7	100
229	In vivo formation of protein corona on gold nanoparticles. The effect of their size and shape. *Nanoscale*, **2018**, 10, 1256-1264	7.7	198
228	Small, Thin Graphene Oxide Is Anti-inflammatory Activating Nuclear Factor Erythroid 2-Related Factor 2 via Metabolic Reprogramming. *ACS Nano*, **2018**, 12, 11949-11962	16.7	23
227	The attenuated spline reconstruction technique for single photon emission computed tomography. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	9
226	Graphene-based papers as substrates for cell growth: Characterisation and impact on mammalian cells. *FlatChem*, **2018**, 12, 17-25	5.1	17
225	Immunological impact of graphene oxide sheets in the abdominal cavity is governed by surface reactivity. *Archives of Toxicology*, **2018**, 92, 3359-3379	5.8	17
224	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. *ACS Nano*, **2018**, 12, 10582-10620	16.7	292
223	Water-based and biocompatible 2D crystal inks for all-inkjet-printed heterostructures. *Nature Nanotechnology*, **2017**, 12, 343-350	28.7	335

222	Culture Media Critically Influence Graphene Oxide Effects on Plasma Membranes. *CheM*, **2017**, 2, 322-323	36.2	13
221	High-Accuracy Determination of Cytotoxic Responses from Graphene Oxide Exposure Using Imaging Flow Cytometry. *Methods in Molecular Biology*, **2017**, 1570, 287-300	1.4	3
220	Nanoscience and Nanotechnology Cross Borders. *ACS Nano*, **2017**, 11, 1123-1126	16.7	3
219	Graphene materials as 2D non-viral gene transfer vector platforms. *Gene Therapy*, **2017**, 24, 123-132	4	46
218	Primary microglia maintain their capacity to function despite internalisation and intracellular loading with carbon nanotubes. *Nanoscale Horizons*, **2017**, 2, 284-296	10.8	7
217	Direct visualization of carbon nanotube degradation in primary cells by photothermal imaging. *Nanoscale*, **2017**, 9, 4642-4645	7.7	23
216	Single-cell mass cytometry and transcriptome profiling reveal the impact of graphene on human immune cells. *Nature Communications*, **2017**, 8, 1109	17.4	83
215	Graphene in the Design and Engineering of Next-Generation Neural Interfaces. *Advanced Materials*, **2017**, 29, 1700909	24	88
214	Liposome-Indocyanine Green Nanoprobes for Optical Labeling and Tracking of Human Mesenchymal Stem Cells Post-Transplantation In Vivo. *Advanced Healthcare Materials*, **2017**, 6, 1700374	10.1	15
213	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. *Science Robotics*, **2017**, 2,	18.6	393
212	Hypochlorite degrades 2D graphene oxide sheets faster than 1D oxidised carbon nanotubes and nanohorns. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	19
211	Transient transcription factor (OSKM) expression is key towards clinical translation of cell reprogramming. *EMBO Molecular Medicine*, **2017**, 9, 733-736	12	14
210	In Vivo Reprogramming Towards Pluripotency for Tissue Repair and Regeneration. *Pancreatic Islet Biology*, **2017**, 83-98	0.4	
209	Engineering thermosensitive liposome-nanoparticle hybrids loaded with doxorubicin for heat-triggered drug release. *International Journal of Pharmaceutics*, **2016**, 514, 133-141	6.5	30
208	Thickness of functionalized graphene oxide sheets plays critical role in tissue accumulation and urinary excretion: A pilot PET/CT study. *Applied Materials Today*, **2016**, 4, 24-30	6.6	48
207	Different chemical strategies to aminate oxidised multi-walled carbon nanotubes for siRNA complexation and delivery. *Journal of Materials Chemistry B*, **2016**, 4, 431-441	7.3	15
206	Intracellular degradation of chemically functionalized carbon nanotubes using a long-term primary microglial culture model. *Nanoscale*, **2016**, 8, 590-601	7.7	44
205	Time-evolution of in vivo protein corona onto blood-circulating PEGylated liposomal doxorubicin (DOXIL) nanoparticles. *Nanoscale*, **2016**, 8, 6948-57	7.7	132

204	Kinetics of functionalised carbon nanotube distribution in mouse brain after systemic injection: Spatial to ultra-structural analyses. *Journal of Controlled Release*, **2016**, 224, 22-32	11.7	44
203	Engineering Cell Fate for Tissue Regeneration by In Vivo Transdifferentiation. *Stem Cell Reviews and Reports*, **2016**, 12, 129-39	6.4	7
202	Gadolinium-functionalised multi-walled carbon nanotubes as a T 1 contrast agent for MRI cell labelling and tracking. *Carbon*, **2016**, 97, 126-133	10.4	39
201	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. *PLoS ONE*, **2016**, 11, e0166816	3.7	58
200	Radiolabeling, whole-body single photon emission computed tomography/computed tomography imaging, and pharmacokinetics of carbon nanohorns in mice. *International Journal of Nanomedicine*, **2016**, 11, 3317-30	7.3	8
199	Purity of graphene oxide determines its antibacterial activity. *2D Materials*, **2016**, 3, 025025	5.9	125
198	Biomedical Uses for 2D Materials Beyond Graphene: Current Advances and Challenges Ahead. *Advanced Materials*, **2016**, 28, 6052-74	24	266
197	Molecular and Genomic Impact of Large and Small Lateral Dimension Graphene Oxide Sheets on Human Immune Cells from Healthy Donors. *Advanced Healthcare Materials*, **2016**, 5, 276-87	10.1	73
196	The Effects of Extensive Glomerular Filtration of Thin Graphene Oxide Sheets on Kidney Physiology. *ACS Nano*, **2016**, 10, 10753-10767	16.7	54
195	The Emergence of Nanopharmacy: From Biology to Nanotechnology and Drug Molecules to Nanodrugs **2016**, 43-62		1
194	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. *ACS Nano*, **2016**, 10, 4459-71	16.7	101
193	Can Carbon Nanotubes Deliver on Their Promise in Biology? Harnessing Unique Properties for Unparalleled Applications. *ACS Central Science*, **2016**, 2, 190-200	16.8	71
192	Synthesis of few-layered, high-purity graphene oxide sheets from different graphite sources for biology. *2D Materials*, **2016**, 3, 014006	5.9	81
191	Chemical Components for the Design of Temperature-Responsive Vesicles as Cancer Therapeutics. *Chemical Reviews*, **2016**, 116, 3883-918	68.1	109
190	The current graphene safety landscape--a literature mining exercise. *Nanoscale*, **2015**, 7, 6432-5	7.7	41
189	Microglia Determine Brain Region-Specific Neurotoxic Responses to Chemically Functionalized Carbon Nanotubes. *ACS Nano*, **2015**, 9, 7815-30	16.7	74
188	Multifunctional carbon nanomaterial hybrids for magnetic manipulation and targeting. *Biochemical and Biophysical Research Communications*, **2015**, 468, 454-62	3.4	34
187	In Vivo Biomolecule Corona around Blood-Circulating, Clinically Used and Antibody-Targeted Lipid Bilayer Nanoscale Vesicles. *ACS Nano*, **2015**, 9, 8142-56	16.7	218

186	Monoclonal antibody-targeted PEGylated liposome-ICG encapsulating doxorubicin as a potential theranostic agent. *International Journal of Pharmaceutics*, **2015**, 482, 2-10	6.5	75
185	Nanocomposite Hydrogels: 3D Polymer-Nanoparticle Synergies for On-Demand Drug Delivery. *ACS Nano*, **2015**, 9, 4686-97	16.7	497
184	Controlled in vivo swimming of a swarm of bacteria-like microrobotic flagella. *Advanced Materials*, **2015**, 27, 2981-8	24	308
183	Degradation-by-design: Surface modification with functional substrates that enhance the enzymatic degradation of carbon nanotubes. *Biomaterials*, **2015**, 72, 20-8	15.6	50
182	The winding road for carbon nanotubes in nanomedicine. *Materials Today*, **2015**, 18, 12-19	21.8	94
181	Dynamic imaging of PEGylated indocyanine green (ICG) liposomes within the tumor microenvironment using multi-spectral optoacoustic tomography (MSOT). *Biomaterials*, **2015**, 37, 415-24	15.6	137
180	Controlled Chemical Derivatisation of Carbon Nanotubes with Imaging, Targeting, and Therapeutic Capabilities. *Chemistry - A European Journal*, **2015**, 21, 14886-92	4.8	16
179	Molecular impact of graphene oxide with different shape dimension on human immune cells **2015**, 3, P217		3
178	Tissue distribution and urinary excretion of intravenously administered chemically functionalized graphene oxide sheets. *Chemical Science*, **2015**, 6, 3952-3964	9.4	101
177	Design of Cationic Multiwalled Carbon Nanotubes as Efficient siRNA Vectors for Lung Cancer Xenograft Eradication. *Bioconjugate Chemistry*, **2015**, 26, 1370-9	6.3	47
176	Biodegradation of carbon nanohorns in macrophage cells. *Nanoscale*, **2015**, 7, 2834-40	7.7	38
175	Triggered doxorubicin release in solid tumors from thermosensitive liposome-peptide hybrids: Critical parameters and therapeutic efficacy. *International Journal of Cancer*, **2015**, 137, 731-43	7.5	31
174	Functional inhibition of Ecatenin-mediated Wnt signaling by intracellular VHH antibodies. *MAbs*, **2015**, 7, 180-91	6.6	24
173	Peptide nanofiber complexes with siRNA for deep brain gene silencing by stereotactic neurosurgery. *ACS Nano*, **2015**, 9, 1137-49	16.7	33
172	Graphene for multi-functional synthetic biology: the last Reitgeist in nanomedicine. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 1638-49	2.9	50
171	Materials science. Exploring the interface of graphene and biology. *Science*, **2014**, 344, 261-3	33.3	241
170	Induced pluripotent stem (iPS) cells: a new source for cell-based therapeutics?. *Journal of Controlled Release*, **2014**, 185, 37-44	11.7	45
169	Graphene-based electroresponsive scaffolds as polymeric implants for on-demand drug delivery. *Advanced Healthcare Materials*, **2014**, 3, 1334-43	10.1	116

168	In vivo cell reprogramming to pluripotency: exploring a novel tool for cell replenishment and tissue regeneration. *Biochemical Society Transactions*, **2014**, 42, 711-716	5.1	7
167	siRNA liposome-gold nanorod vectors for multispectral optoacoustic tomography theranostics. *Nanoscale*, **2014**, 6, 13451-6	7.7	28
166	The relationship between the diameter of chemically-functionalized multi-walled carbon nanotubes and their organ biodistribution profiles in vivo. *Biomaterials*, **2014**, 35, 9517-28	15.6	47
165	Graphene devices for life. *Nature Nanotechnology*, **2014**, 9, 744-5	28.7	136
164	The engineering of doxorubicin-loaded liposome-quantum dot hybrids for cancer theranostics. *Chinese Physics B*, **2014**, 23, 087805	1.2	5
163	Generation of induced pluripotent stem cells from virus-free in vivo reprogramming of BALB/c mouse liver cells. *Biomaterials*, **2014**, 35, 8312-20	15.6	11
162	Classification framework for graphene-based materials. *Angewandte Chemie - International Edition*, **2014**, 53, 7714-8	16.4	287
161	Rahmenbedingungen f□die Klassifizierung graphenbasierter Materialien. *Angewandte Chemie*, **2014**, 126, 7846-7850	3.6	6
160	Monoclonal antibody-targeted, temperature-sensitive liposomes: in vivo tumor chemotherapeutics in combination with mild hyperthermia. *Journal of Controlled Release*, **2014**, 196, 332-43	11.7	63
159	Development of dual-activity vectors by co-envelopment of adenovirus and SiRNA in artificial lipid bilayers. *PLoS ONE*, **2014**, 9, e114985	3.7	4
158	Electroresponsive polymer-carbon nanotube hydrogel hybrids for pulsatile drug delivery in vivo. *Advanced Healthcare Materials*, **2013**, 2, 806-11	10.1	83
157	Pulmonary DWCNT exposure causes sustained local and low-level systemic inflammatory changes in mice. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 84, 412-20	5.7	12
156	Asbestos-like Pathogenicity of Long Carbon Nanotubes Alleviated by Chemical Functionalization. *Angewandte Chemie*, **2013**, 125, 2330-2334	3.6	9
155	Graphene Oxide: Purified Graphene Oxide Dispersions Lack In Vitro Cytotoxicity and In Vivo Pathogenicity (Adv. Healthcare Mater. 3/2013). *Advanced Healthcare Materials*, **2013**, 2, 512-512	10.1	3
154	Cationic poly-L-lysine dendrimer complexes doxorubicin and delays tumor growth in vitro and in vivo. *ACS Nano*, **2013**, 7, 1905-17	16.7	112
153	How do functionalized carbon nanotubes land on, bind to and pierce through model and plasma membranes. *Nanoscale*, **2013**, 5, 10242-50	7.7	49
152	Carbon nanotubes as vectors for gene therapy: past achievements, present challenges and future goals. *Advanced Drug Delivery Reviews*, **2013**, 65, 2023-33	18.5	128
151	Hemotoxicity of carbon nanotubes. *Advanced Drug Delivery Reviews*, **2013**, 65, 2127-34	18.5	37

150	Pharmacology of carbon nanotubes: toxicokinetics, excretion and tissue accumulation. *Advanced Drug Delivery Reviews*, **2013**, 65, 2111-9	18.5	74
149	A high poly(ethylene glycol) density on graphene nanomaterials reduces the detachment of lipid-poly(ethylene glycol) and macrophage uptake. *Acta Biomaterialia*, **2013**, 9, 4744-53	10.8	26
148	Asbestos-like pathogenicity of long carbon nanotubes alleviated by chemical functionalization. *Angewandte Chemie - International Edition*, **2013**, 52, 2274-8	16.4	137
147	Safety considerations for graphene: lessons learnt from carbon nanotubes. *Accounts of Chemical Research*, **2013**, 46, 692-701	24.3	239
146	Prospects and challenges of graphene in biomedical applications. *Advanced Materials*, **2013**, 25, 2258-68	24	497
145	Ammonium and guanidinium dendron-carbon nanotubes by amidation and click chemistry and their use for siRNA delivery. *Small*, **2013**, 9, 3610-9	11	41
144	Purified graphene oxide dispersions lack in vitro cytotoxicity and in vivo pathogenicity. *Advanced Healthcare Materials*, **2013**, 2, 433-41	10.1	145
143	The effective nuclear delivery of doxorubicin from dextran-coated gold nanoparticles larger than nuclear pores. *Biomaterials*, **2013**, 34, 3503-10	15.6	76
142	The effect of artificial lipid envelopment of Adenovirus 5 (Ad5) on liver de-targeting and hepatotoxicity. *Biomaterials*, **2013**, 34, 1354-63	15.6	12
141	Peptide nanofibres as molecular transporters: from self-assembly to in vivo degradation. *Faraday Discussions*, **2013**, 166, 181-94	3.6	11
140	Autophagy and formation of tubulovesicular autophagosomes provide a barrier against nonviral gene delivery. *Autophagy*, **2013**, 9, 667-82	10.2	46
139	Design, engineering and structural integrity of electro-responsive carbon nanotube- based hydrogels for pulsatile drug release. *Journal of Materials Chemistry B*, **2013**, 1, 4593-4600	7.3	52
138	In vivo reprogramming of adult somatic cells to pluripotency by overexpression of Yamanaka factors. *Journal of Visualized Experiments*, **2013**, e50837	1.6	7
137	Innentitelbild: Asbestos-like Pathogenicity of Long Carbon Nanotubes Alleviated by Chemical Functionalization (Angew. Chem. 8/2013). *Angewandte Chemie*, **2013**, 125, 2184-2184	3.6	1
136	In vivo cell reprogramming towards pluripotency by virus-free overexpression of defined factors. *PLoS ONE*, **2013**, 8, e54754	3.7	34
135	Functionalized carbon nanotubes in the brain: cellular internalization and neuroinflammatory responses. *PLoS ONE*, **2013**, 8, e80964	3.7	70
134	Translocation mechanisms of chemically functionalised carbon nanotubes across plasma membranes. *Biomaterials*, **2012**, 33, 3334-43	15.6	199
133	Pharmacokinetics & tissue distribution of temperature-sensitive liposomal doxorubicin in tumor-bearing mice triggered with mild hyperthermia. *Biomaterials*, **2012**, 33, 4608-17	15.6	91

132	Therapeutics, imaging and toxicity of nanomaterials in the central nervous system. *Journal of Controlled Release*, **2012**, 161, 290-306	11.7	58
131	Quasi first-principles Monte Carlo modeling of energy dissipation by low-energy electron beams in multi-walled carbon nanotube materials. *Applied Physics Letters*, **2012**, 100, 093113	3.4	7
130	Anti-angiogenic poly-L-lysine dendrimer binds heparin and neutralizes its activity. *Results in Pharma Sciences*, **2012**, 2, 9-15		19
129	An electric-field responsive microsystem for controllable miniaturised drug delivery applications. *Sensors and Actuators B: Chemical*, **2012**, 175, 100-105	8.5	18
128	Lipid-peptide vesicle nanoscale hybrids for triggered drug release by mild hyperthermia in vitro and in vivo. *ACS Nano*, **2012**, 6, 9335-46	16.7	191
127	In vivo degradation of functionalized carbon nanotubes after stereotactic administration in the brain cortex. *Nanomedicine*, **2012**, 7, 1485-94	5.6	97
126	Therapeutic Applications **2012**, 285-313		4
125	Targeting carbon nanotubes against cancer. *Chemical Communications*, **2012**, 48, 3911-26	5.8	216
124	Liposome-gold nanorod hybrids for high-resolution visualization deep in tissues. *Journal of the American Chemical Society*, **2012**, 134, 13256-8	16.4	71
123	Degree of Chemical Functionalization of Carbon Nanotubes Determines Tissue Distribution and Excretion Profile. *Angewandte Chemie*, **2012**, 124, 6495-6499	3.6	7
122	Degree of chemical functionalization of carbon nanotubes determines tissue distribution and excretion profile. *Angewandte Chemie - International Edition*, **2012**, 51, 6389-93	16.4	103
121	Design and Engineering of Multifunctional Quantum Dot-Based Nanoparticles for Simultaneous Therapeutic-Diagnostic Applications. *Nanostructure Science and Technology*, **2012**, 345-365	0.9	5
120	Application of carbon nanotubes in neurology: clinical perspectives and toxicological risks. *Archives of Toxicology*, **2012**, 86, 1009-20	5.8	45
119	Carbon nanotube-mediated wireless cell permeabilization: drug and gene uptake. *Nanomedicine*, **2011**, 6, 1709-18	5.6	27
118	Cytotoxic assessment of carbon nanotube interaction with cell cultures. *Methods in Molecular Biology*, **2011**, 726, 299-312	1.4	46
117	Cellular uptake mechanisms of functionalised multi-walled carbon nanotubes by 3D electron tomography imaging. *Nanoscale*, **2011**, 3, 2627-35	7.7	98
116	An Electric-Field Responsive Microsystem for Controllable Miniaturised Drug Delivery Applications. *Procedia Engineering*, **2011**, 25, 984-987		13
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