

Robert H Hurt

List of Publications by Citations

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75
papers

8,438
citations

38
h-index

81
g-index

81
ext. papers

9,252
ext. citations

11
avg, IF

6.33
L-index

#	Paper	IF	Citations
75	Ion release kinetics and particle persistence in aqueous nano-silver colloids. <i>Environmental Science & Technology</i> , 2010 , 44, 2169-75	10.3	1329
74	Biological interactions of graphene-family nanomaterials: an interdisciplinary review. <i>Chemical Research in Toxicology</i> , 2012 , 25, 15-34	4	953
73	Controlled release of biologically active silver from nanosilver surfaces. <i>ACS Nano</i> , 2010 , 4, 6903-13	16.7	841
72	Graphene microsheets enter cells through spontaneous membrane penetration at edge asperities and corner sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12295-300	11.5	564
71	Cell entry of one-dimensional nanomaterials occurs by tip recognition and rotation. <i>Nature Nanotechnology</i> , 2011 , 6, 714-9	28.7	376
70	Chemical transformations of nanosilver in biological environments. <i>ACS Nano</i> , 2012 , 6, 9887-99	16.7	252
69	Antioxidant chemistry of graphene-based materials and its role in oxidation protection technology. <i>Nanoscale</i> , 2014 , 6, 11744-55	7.7	237
68	Kinetics and mechanisms of nanosilver oxysulfidation. <i>Environmental Science & Technology</i> , 2011 , 45, 7345-53	10.3	202
67	Biological and environmental transformations of copper-based nanomaterials. <i>ACS Nano</i> , 2013 , 7, 8715-27	16.7	180
66	Biological and environmental interactions of emerging two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , 2016 , 45, 1750-80	58.5	168
65	Aerosol synthesis of cargo-filled graphene nanosacks. <i>Nano Letters</i> , 2012 , 12, 1996-2002	11.5	166
64	Chemical Dissolution Pathways of MoS ₂ Nanosheets in Biological and Environmental Media. <i>Environmental Science & Technology</i> , 2016 , 50, 7208-17	10.3	142
63	Biodurability of Single-Walled Carbon Nanotubes Depends on Surface Functionalization. <i>Carbon</i> , 2010 , 48, 1961-1969	10.4	141
62	Biopersistence and potential adverse health impacts of fibrous nanomaterials: what have we learned from asbestos?. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009 , 1, 511-29	9.2	139
61	Explosive thermal reduction of graphene oxide-based materials: mechanism and safety implications. <i>Carbon</i> , 2014 , 72, 215-223	10.4	122
60	Antioxidant deactivation on graphenic nanocarbon surfaces. <i>Small</i> , 2011 , 7, 2775-85	11	116
59	Bioavailability, intracellular mobilization of nickel, and HIF-1 α activation in human lung epithelial cells exposed to metallic nickel and nickel oxide nanoparticles. <i>Toxicological Sciences</i> , 2011 , 124, 138-48	4.4	113

58	Graphene-based environmental barriers. <i>Environmental Science & Technology</i> , 2012 , 46, 7717-24	10.3	110
57	Porous Structures in Stacked, Crumpled and Pillared Graphene-Based 3D Materials. <i>Carbon</i> , 2014 , 66, 476-484	10.4	91
56	Nanomechanical mechanism for lipid bilayer damage induced by carbon nanotubes confined in intracellular vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12374-12379	11.5	89
55	Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation. <i>Advanced Materials</i> , 2016 , 28, 3564-71	24	86
54	Wrinkled, wavelength-tunable graphene-based surface topographies for directing cell alignment and morphology. <i>Carbon</i> , 2016 , 97, 14-24	10.4	82
53	Two-dimensional materials as emulsion stabilizers: interfacial thermodynamics and molecular barrier properties. <i>Langmuir</i> , 2014 , 30, 3687-96	4	79
52	Opportunities for nanotechnology-enabled bioactive bone implants. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2653		70
51	Encapsulation of particle ensembles in graphene nanosacks as a new route to multifunctional materials. <i>ACS Nano</i> , 2013 , 7, 3744-53	16.7	66
50	Thermochemistry and kinetics of graphite oxide exothermic decomposition for safety in large-scale storage and processing. <i>Carbon</i> , 2016 , 96, 20-28	10.4	62
49	Thermal Annealing of Chars from Diverse Organic Precursors under Combustion-like Conditions. <i>Energy & Fuels</i> , 2000 , 14, 340-348	4.1	61
48	From Flatland to Spaceland: Higher Dimensional Patterning with Two-Dimensional Materials. <i>Advanced Materials</i> , 2017 , 29, 1605096	24	59
47	A carbon science perspective in 2018: Current achievements and future challenges. <i>Carbon</i> , 2018 , 132, 785-801	10.4	59
46	The inhibition of neuronal calcium ion channels by trace levels of yttrium released from carbon nanotubes. <i>Biomaterials</i> , 2009 , 30, 6351-7	15.6	59
45	Breathable Vapor Toxicant Barriers Based on Multilayer Graphene Oxide. <i>ACS Nano</i> , 2017 , 11, 5670-5679	16.7	56
44	Effects of Carbon on Air Entrainment in Fly Ash Concrete: The Role of Soot and Carbon Black. <i>Energy & Fuels</i> , 1997 , 11, 457-462	4.1	54
43	The asbestos-carbon nanotube analogy: An update. <i>Toxicology and Applied Pharmacology</i> , 2018 , 361, 68-80	4.6	52
42	Engineering of Graphene Layer Orientation to Attain High Rate Capability and Anisotropic Properties in Li-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2013 , 23, 2397-2404	15.6	47
41	Controlling water contact angle on carbon surfaces from 5° to 167°. <i>Carbon</i> , 2006 , 44, 3116-3120	10.4	47

40	Hierarchical Metal Oxide Topographies Replicated from Highly Textured Graphene Oxide by Intercalation Templating. <i>ACS Nano</i> , 2016 , 10, 10869-10879	16.7	43
39	A 3-dimensional in vitro model of epithelioid granulomas induced by high aspect ratio nanomaterials. <i>Particle and Fibre Toxicology</i> , 2011 , 8, 17	8.4	40
38	Graphene-Induced Adsorptive and Optical Artifacts During In Vitro Toxicology Assays. <i>Small</i> , 2013 , 9, 1921-1927	11	37
37	Degradation products from consumer nanocomposites: a case study on quantum dot lighting. <i>Environmental Science & Technology</i> , 2012 , 46, 3220-7	10.3	37
36	Effects of surface-engineered nanoparticle-based dispersants for marine oil spills on the model organism <i>Artemia franciscana</i> . <i>Environmental Science & Technology</i> , 2014 , 48, 6419-27	10.3	34
35	Ultrastretchable Graphene-Based Molecular Barriers for Chemical Protection, Detection, and Actuation. <i>ACS Nano</i> , 2018 , 12, 234-244	16.7	32
34	Biological interactions and safety of graphene materials. <i>MRS Bulletin</i> , 2012 , 37, 1307-1313	3.2	30
33	Influence of External Heating Rate on the Structure and Porosity of Thermally Exfoliated Graphite Oxide. <i>Carbon</i> , 2017 , 111, 651-657	10.4	29
32	Oxidation suppression during hydrothermal phase reversion allows synthesis of monolayer semiconducting MoS in stable aqueous suspension. <i>Nanoscale</i> , 2017 , 9, 5398-5403	7.7	23
31	Three-Dimensional Graphene-Based Microbarriers for Controlling Release and Reactivity in Colloidal Liquid Phases. <i>ACS Nano</i> , 2016 , 10, 2268-76	16.7	23
30	Crumpled graphene nanoreactors. <i>Nanoscale</i> , 2015 , 7, 10267-78	7.7	19
29	Graphene Inks as Versatile Templates for Printing Tiled Metal Oxide Crystalline Films. <i>Advanced Materials</i> , 2018 , 30, 1705080	24	19
28	A novel human 3D lung microtissue model for nanoparticle-induced cell-matrix alterations. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 15	8.4	17
27	Biodissolution and Cellular Response to MoO ₃ Nanoribbons and a New Framework for Early Hazard Screening for 2D Materials. <i>Environmental Science: Nano</i> , 2018 , 5, 2545-2559	7.1	15
26	Controlling nanochannel orientation and dimensions in graphene-based nanofluidic membranes. <i>Nature Communications</i> , 2021 , 12, 507	17.4	14
25	Visualization of liquid crystal director fields within carbon nanotube cavities. <i>Applied Physics Letters</i> , 2006 , 88, 163110	3.4	12
24	Novel application of magnetic nano-carbon composite as redox mediator in the reductive biodegradation of iopromide in anaerobic continuous systems. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8951-8961	5.7	10
23	A simple numerical model to estimate the effect of coal selection on pulverized fuel burnout. <i>Combustion Science and Technology</i> , 2003 , 175, 1085-1108	1.5	10

22	Mosquito bite prevention through graphene barrier layers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18304-18309	11.5	9
21	Chemical and Colloidal Dynamics of MnO Nanosheets in Biological Media Relevant for Nanosafety Assessment. <i>Small</i> , 2020 , 16, e2000303	11	9
20	Pillared graphene oxide composite as an adsorbent of soluble hydrocarbons in water: pH and organic matter effects. <i>Journal of Environmental Management</i> , 2020 , 259, 110044	7.9	9
19	Mechanical behavior of anodic alumina coatings reinforced with carbon nanofibers. <i>Journal of Materials Science</i> , 2009 , 44, 6020-6027	4.3	8
18	Highly conductive graphene-based segregated composites prepared by particle templating. <i>Journal of Materials Science</i> , 2014 , 49, 2567-2570	4.3	7
17	Supramolecular Synthesis of Graphenic Mesogenic Materials. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1164-1174	2.6	7
16	Dry and Semi-Dry Methods for Removal of Ammonia from Pulverized Fuel Combustion Fly Ash. <i>Energy & Fuels</i> , 2002 , 16, 1398-1404	4.1	4
15	Controlling pore structure and conductivity in graphene nanosheet films through partial thermal exfoliation. <i>Carbon</i> , 2021 , 174, 227-239	10.4	4
14	Novel Carbon Nanotubes Based on Disk-Rod Assemblies of Lyotropic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 435, 107/[767]-116/[776]	0.5	3
13	Graphene Topographies: Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation (Adv. Mater. 18/2016). <i>Advanced Materials</i> , 2016 , 28, 3603-3603	24	3
12	Improved reductive transformation of iopromide by magnetite containing reduced graphene oxide nanosacks as electron shuttles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 566, 188-195	5.1	3
11	A graphene-based hydrogel monolith with tailored surface chemistry for PFAS passive sampling.. <i>Environmental Science: Nano</i> , 2021 , 8, 2894-2907	7.1	3
10	Impact of emerging, high-production-volume graphene-based materials on the bioavailability of benzo(a)pyrene to brine shrimp and fish liver cells. <i>Environmental Science: Nano</i> , 2018 , 5, 2144-2161	7.1	2
9	Development of an Evaluational Prediction Tool for Coal Combustion Histories. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2003 , 82, 849-855	0.5	2
8	Manganese dioxide nanosheets induce mitochondrial toxicity in fish gill epithelial cells. <i>Nanotoxicology</i> , 2021 , 15, 400-417	5.3	2
7	Liquid Crystals: Vertically Aligned Graphene Layer Arrays from Chromonic Liquid Crystal Precursors (Adv. Mater. 4/2011). <i>Advanced Materials</i> , 2011 , 23, 436-436	24	1
6	25.4: Micro-Patterned Carbon Nanotube Arrays Using Pen-Writable Lyotropic Liquid Crystals. <i>Digest of Technical Papers SID International Symposium</i> , 2004 , 35, 936	0.5	1
5	Shear Failure in Supported Two-Dimensional Nanosheet Van der Waals Thin Films. <i>Carbon</i> , 2021 , 173, 410-418	10.4	0

- 4 Cancer Therapeutics: Selenium-Carbon Bifunctional Nanoparticles for the Treatment of Malignant Mesothelioma (Adv. Mater. 45/2010). *Advanced Materials*, **2010**, 22, 5072-5072 24
- 3 Systematic Molecular Control of Interfacial Structure in Nanoporous Carbons. *Materials Research Society Symposia Proceedings*, **2003**, 788, 691
- 2 Supramolecular Synthesis of Graphenic Mesogenic Materials **2016**, 69-85
- 1 An all-inorganic, fully dense, stretchable ceramic magnetic film. *Nanoscale Advances*, **2021**, 3, 800-804 5.1