Bengt Fadeel

List of Publications by Year
in descending order

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212 papers	17,085 citations	11651 70 h-index	16183 124 g-index
219 all docs	219 docs citations	219 times ranked	22970 citing authors

#	Article	IF	Citations
1	Size-dependent cytotoxicity of silver nanoparticles in human lung cells: the role of cellular uptake, agglomeration and Ag release. Particle and Fibre Toxicology, 2014, 11, 11.	6.2	871
2	Carbon nanotubes degraded by neutrophil myeloperoxidase induce less pulmonary inflammation. Nature Nanotechnology, 2010, 5, 354-359.	31.5	698
3	Better safe than sorry: Understanding the toxicological properties of inorganic nanoparticles manufactured for biomedical applications. Advanced Drug Delivery Reviews, 2010, 62, 362-374.	13.7	624
4	HAX1 deficiency causes autosomal recessive severe congenital neutropenia (Kostmann disease). Nature Genetics, 2007, 39, 86-92.	21.4	450
5	Mechanisms of carbon nanotube-induced toxicity: Focus on oxidative stress. Toxicology and Applied Pharmacology, 2012, 261, 121-133.	2.8	439
6	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	14.6	438
7	Classification Framework for Grapheneâ€Based Materials. Angewandte Chemie - International Edition, 2014, 53, 7714-7718.	13.8	369
8	The ins and outs of phospholipid asymmetry in the plasma membrane: roles in health and disease. Critical Reviews in Biochemistry and Molecular Biology, 2009, 44, 264-277.	5.2	322
9	Macrophage Clearance of Neutrophil Extracellular Traps Is a Silent Process. Journal of Immunology, 2013, 191, 2647-2656.	0.8	322
10	Biological interactions of carbon-based nanomaterials: From coronation to degradation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 333-351.	3.3	322
11	Involvement of Caspases in Neutrophil Apoptosis: Regulation by Reactive Oxygen Species. Blood, 1998, 92, 4808-4818.	1.4	319
12	Redox Regulation of the Caspases during Apoptosis^a. Annals of the New York Academy of Sciences, 1998, 854, 328-335.	3.8	253
13	Water-Soluble Superparamagnetic Magnetite Nanoparticles with Biocompatible Coating for Enhanced Magnetic Resonance Imaging. ACS Nano, 2011, 5, 6315-6324.	14.6	250
14	Spectrum of Perforin Gene Mutations in Familial Hemophagocytic Lymphohistiocytosis. American Journal of Human Genetics, 2001, 68, 590-597.	6.2	246
15	A Role for Oxidative Stress in Apoptosis: Oxidation and Externalization of Phosphatidylserine Is Required for Macrophage Clearance of Cells Undergoing Fas-Mediated Apoptosis. Journal of Immunology, 2002, 169, 487-499.	0.8	245
16	Nanoparticles and innate immunity: new perspectives on host defence. Seminars in Immunology, 2017, 34, 33-51.	5.6	244
17	Close Encounters of the Small Kind: Adverse Effects of Man-Made Materials Interfacing with the Nano-Cosmos of Biological Systems. Annual Review of Pharmacology and Toxicology, 2010, 50, 63-88.	9.4	226
18	Apoptosis in Human Disease: A New Skin for the Old Ceremony?. Biochemical and Biophysical Research Communications, 1999, 266, 699-717.	2.1	225

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19	Programmed Cell Death: Molecular Mechanisms and Implications for Safety Assessment of Nanomaterials. Accounts of Chemical Research, 2013, 46, 733-742.	15.6	217
20	Advanced tools for the safety assessment of nanomaterials. Nature Nanotechnology, 2018, 13, 537-543.	31.5	214
21	Safety assessment of nanomaterials: Implications for nanomedicine. Journal of Controlled Release, 2012, 161, 403-408.	9.9	196
22	Incidence of Langerhans cell histiocytosis in children: A populationâ€based study. Pediatric Blood and Cancer, 2008, 51, 76-81.	1.5	179
23	Efficient internalization of silica-coated iron oxide nanoparticles of different sizes by primary human macrophages and dendritic cells. Toxicology and Applied Pharmacology, 2011, 253, 81-93.	2.8	172
24	Biodegradation of Singleâ€Walled Carbon Nanotubes by Eosinophil Peroxidase. Small, 2013, 9, 2721-2729.	10.0	171
25	Adsorption of Surfactant Lipids by Single-Walled Carbon Nanotubes in Mouse Lung upon Pharyngeal Aspiration. ACS Nano, 2012, 6, 4147-4156.	14.6	170
26	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. PLoS ONE, 2012, 7, e30923.	2.5	156
27	Applying quantitative structureâ€“activity relationship approaches to nanotoxicology: Current status and future potential. Toxicology, 2013, 313, 15-23.	4.2	151
28	On the issue of transparency and reproducibility in nanomedicine. Nature Nanotechnology, 2019, 14, 629-635.	31.5	149
29	Graphene oxide is degraded by neutrophils and the degradation products are non-genotoxic. Nanoscale, 2018, 10, 1180-1188.	5.6	148
30	Stability and biocompatibility of a library of polyester dendrimers in comparison to polyamidoamine dendrimers. Biomaterials, 2012, 33, 1970-1981.	11.4	147
31	Interactions of Engineered Nanoparticles with Organs Protected by Internal Biological Barriers. Small, 2013, 9, 1557-1572.	10.0	139
32	All along the watchtower: on the regulation of apoptosis regulators. FASEB Journal, 1999, 13, 1647-1657.	0.5	136
33	Comprehensive In Vitro Toxicity Testing of a Panel of Representative Oxide Nanomaterials: First Steps towards an Intelligent Testing Strategy. PLoS ONE, 2015, 10, e0127174.	2.5	136
34	Degradation of Singleâ€Layer and Fewâ€Layer Graphene by Neutrophil Myeloperoxidase. Angewandte Chemie - International Edition, 2018, 57, 11722-11727.	13.8	135
35	Lateâ€onset neutropenia following rituximab therapy in rheumatic diseases: Association with B lymphocyte depletion and infections. Arthritis and Rheumatism, 2011, 63, 2209-2214.	6.7	132
36	Phosphatidylserine Exposure during Apoptosis Is a Cell-Type-Specific Event and Does Not Correlate with Plasma Membrane Phospholipid Scramblase Expression. Biochemical and Biophysical Research Communications, 1999, 266, 504-511.	2.1	131

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37	Mapping the Surface Adsorption Forces of Nanomaterials in Biological Systems. ACS Nano, 2011, 5, 9074-9081.	14.6	131
38	Mechanisms of carbon nanotube-induced toxicity: Focus on pulmonary inflammation. Advanced Drug Delivery Reviews, 2013, 65, 2087-2097.	13.7	126
39	NADPH Oxidase-dependent Oxidation and Externalization of Phosphatidylserine during Apoptosis in Me2SO-differentiated HL-60 Cells. Journal of Biological Chemistry, 2002, 277, 49965-49975.	3.4	123
40	Granulocyte colony-stimulating factor inhibits spontaneous cytochrome c release and mitochondria-dependent apoptosis of myelodysplastic syndrome hematopoietic progenitors. Blood, 2003, 101, 1080-1086.	1.4	122
41	Emerging systems biology approaches in nanotoxicology: Towards a mechanism-based understanding of nanomaterial hazard and risk. Toxicology and Applied Pharmacology, 2016, 299, 101-111.	2.8	117
42	Direct Effects of Carbon Nanotubes on Dendritic Cells Induce Immune Suppression Upon Pulmonary Exposure. ACS Nano, 2011, 5, 5755-5762.	14.6	116
43	Familial hemophagocytic lymphohistiocytosis type 3 (FHL3) caused by deep intronic mutation and inversion in UNC13D. Blood, 2011, 118, 5783-5793.	1.4	115
44	Phosphatidylserine Targets Single-Walled Carbon Nanotubes to Professional Phagocytes In Vitro and In Vivo. PLoS ONE, 2009, 4, e4398.	2.5	108
45	In search of the Holy Grail: Folate-targeted nanoparticles for cancer therapy. Biochemical Pharmacology, 2011, 81, 976-984.	4.4	108
46	Microsomal Glutathione Transferase 1 Protects Against Toxicity Induced by Silica Nanoparticles but Not by Zinc Oxide Nanoparticles. ACS Nano, 2012, 6, 1925-1938.	14.6	100
47	Three cell deaths and a funeral: macrophage clearance of cells undergoing distinct modes of cell death. Cell Death Discovery, 2019, 5, 65.	4.7	98
48	HAX-1: A multifunctional protein with emerging roles in human disease. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1139-1148.	2.4	97
49	Gene Expression Profiling of Immune-Competent Human Cells Exposed to Engineered Zinc Oxide or Titanium Dioxide Nanoparticles. PLoS ONE, 2013, 8, e68415.	2.5	94
50	The eNanoMapper database for nanomaterial safety information. Beilstein Journal of Nanotechnology, 2015, 6, 1609-1634.	2.8	92
51	It takes two to tango: Understanding the interactions between engineered nanomaterials and the immune system. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 3-12.	4.3	88
52	Bridge over troubled waters: understanding the synthetic and biological identities of engineered nanomaterials. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2013, 5, 111-129.	6.1	87
53	Hide and Seek: Nanomaterial Interactions With the Immune System. Frontiers in Immunology, 2019, 10, 133.	4.8	87
54	Mechanism-based genotoxicity screening of metal oxide nanoparticles using the ToxTracker panel of reporter cell lines. Particle and Fibre Toxicology, 2014, 11, 41.	6.2	86

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55	Fibrillar vs crystalline nanocellulose pulmonary epithelial cell responses: Cytotoxicity or inflammation?. Chemosphere, 2017, 171, 671-680.	8.2	84
56	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF-Î± Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. PLoS ONE, 2016, 11, e0166816.	2.5	84
57	Clinical presentation of Griscelli syndrome type 2 and spectrum of RAB27A mutations. Pediatric Blood and Cancer, 2010, 54, 563-572.	1.5	82
58	Clear and present danger? Engineered nanoparticles and the immune system. Swiss Medical Weekly, 2012, 142, w13609.	1.6	82
59	Efficient internalization of mesoporous silica particles of different sizes by primary human macrophages without impairment of macrophage clearance of apoptotic or antibody-opsonized target cells. Toxicology and Applied Pharmacology, 2009, 239, 306-319.	2.8	81
60	Oxidative Stress and Dermal Toxicity of Iron Oxide Nanoparticles In Vitro. Cell Biochemistry and Biophysics, 2013, 67, 461-476.	1.8	80
61	Targeted uptake of folic acid-functionalized iron oxide nanoparticles by ovarian cancer cells in the presence but not in the absence of serum. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1421-1431.	3.3	80
62	Graphene and other 2D materials: a multidisciplinary analysis to uncover the hidden potential as cancer theranostics. Theranostics, 2020, 10, 5435-5488.	10.0	80
63	Intra- and Extracellular Degradation of Neutrophil Extracellular Traps by Macrophages and Dendritic Cells. Journal of Immunology, 2019, 203, 2276-2290.	0.8	79
64	Successful Treatment of Langerhans'-Cell Histiocytosis with Etanercept. New England Journal of Medicine, 2001, 345, 1577-1578.	27.0	78
65	Kostmann syndrome: severe congenital neutropenia associated with defective expression of Bcl-2, constitutive mitochondrial release of cytochrome c, and excessive apoptosis of myeloid progenitor cells. Blood, 2004, 103, 3355-3361.	1.4	78
66	Nitrosative Stress Inhibits the Aminophospholipid Translocase Resulting in Phosphatidylserine Externalization and Macrophage Engulfment. Journal of Biological Chemistry, 2007, 282, 8498-8509.	3.4	74
67	Solution-Engineered Palladium Nanoparticles: Model for Health Effect Studies of Automotive Particulate Pollution. ACS Nano, 2011, 5, 5312-5324.	14.6	73
68	Next-Generation Sequencing Reveals Low-Dose Effects of Cationic Dendrimers in Primary Human Bronchial Epithelial Cells. ACS Nano, 2015, 9, 146-163.	14.6	73
69	A blueprint for the synthesis and characterisation of thin graphene oxide with controlled lateral dimensions for biomedicine. 2D Materials, 2018, 5, 035020.	4.4	73
70	Programmed cell clearance: Molecular regulation of the elimination of apoptotic cell corpses and its role in the resolution of inflammation. Biochemical and Biophysical Research Communications, 2010, 396, 7-10.	2.1	72
71	Nanotoxicology: no small matter. Nanoscale, 2010, 2, 2514.	5.6	71
72	Calcium-dependent cyto- and genotoxicity of nickel metal and nickel oxide nanoparticles in human lung cells. Particle and Fibre Toxicology, 2018, 15, 32.	6.2	70

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73	Grouping all carbon nanotubes into a single substance category is scientifically unjustified. Nature Nanotechnology, 2020, 15, 164-164.	31.5	70
74	Lipid Antioxidant, Etoposide, Inhibits Phosphatidylserine Externalization and Macrophage Clearance of Apoptotic Cells by Preventing Phosphatidylserine Oxidation. Journal of Biological Chemistry, 2004, 279, 6056-6064.	3.4	68
75	Graphene Oxide Elicits Membrane Lipid Changes and Neutrophil Extracellular Trap Formation. CheM, 2018, 4, 334-358.	11.7	68
76	RNA-sequencing reveals long-term effects of silver nanoparticles on human lung cells. Scientific Reports, 2018, 8, 6668.	3.3	68
77	Cytokine Profiling of Primary Human Macrophages Exposed to Endotoxinâ€Free Graphene Oxide: Sizeâ€Independent NLRP3 Inflammasome Activation. Advanced Healthcare Materials, 2018, 7, 1700815.	7.6	67
78	Keeping it real: The importance of material characterization in nanotoxicology. Biochemical and Biophysical Research Communications, 2015, 468, 498-503.	2.1	65
79	Cerium oxide nanoparticles inhibit differentiation of neural stem cells. Scientific Reports, 2017, 7, 9284.	3.3	65
80	Late-onset neutropenia associated with rituximab therapy: evidence for a maturation arrest at the (pro)myelocyte stage of granulopoiesis. Medical Oncology, 2008, 25, 374-379.	2.5	64
81	Global Phospholipidomics Analysis Reveals Selective Pulmonary Peroxidation Profiles upon Inhalation of Single-Walled Carbon Nanotubes. ACS Nano, 2011, 5, 7342-7353.	14.6	64
82	Nano-bio interactions: a neutrophil-centric view. Cell Death and Disease, 2019, 10, 569.	6.3	64
83	Dichotomous roles for externalized cardiolipin in extracellular signaling: Promotion of phagocytosis and attenuation of innate immunity. Science Signaling, 2015, 8, ra95.	3.6	62
84	Macrophage sensing of single-walled carbon nanotubes via Toll-like receptors. Scientific Reports, 2018, 8, 1115.	3.3	62
85	Cytotoxicity screening and cytokine profiling of nineteen nanomaterials enables hazard ranking and grouping based on inflammogenic potential. Nanotoxicology, 2017, 11, 809-826.	3.0	62
86	Proteomics Analysis Reveals Distinct Corona Composition on Magnetic Nanoparticles with Different Surface Coatings: Implications for Interactions with Primary Human Macrophages. PLoS ONE, 2015, 10, e0129008.	2.5	61
87	Fas-triggered phosphatidylserine exposure is modulated by intracellular ATP. FEBS Letters, 2002, 519, 153-158.	2.8	60
88	Extracellular entrapment and degradation of single-walled carbon nanotubes. Nanoscale, 2014, 6, 6974.	5.6	60
89	VEGF reduces astrogliosis and preserves neuromuscular junctions in ALS transgenic mice. Biochemical and Biophysical Research Communications, 2007, 363, 989-993.	2.1	59
90	Apoptosis in refractory anaemia with ringed sideroblasts is initiated at the stem cell level and associated with increased activation of caspases. British Journal of Haematology, 2001, 112, 714-726.	2.5	58

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91	Plasma Membrane Alterations During Apoptosis: Role in Corpse Clearance. Antioxidants and Redox Signaling, 2004, 6, 269-275.	5.4	58
92	Macrophage activation status determines the internalization of mesoporous silica particles of different sizes: Exploring the role of different pattern recognition receptors. Biomaterials, 2017, 121, 28-40.	11.4	58
93	PD1 blockade enhances cytotoxicity of in vitro expanded natural killer cells towards myeloma cells. Oncotarget, 2016, 7, 48360-48374.	1.8	57
94	Graphene and the Immune System: A Romance of Many Dimensions. Frontiers in Immunology, 2017, 8, 673.	4.8	56
95	Kostmann syndrome or infantile genetic agranulocytosis, part two: understanding the underlying genetic defects in severe congenital neutropenia. Acta Paediatrica, International Journal of Paediatrics, 2007, 96, 813-819.	1.5	54
96	Enzymatic â€˜strippingâ€™ and degradation of PEGylated carbon nanotubes. Nanoscale, 2014, 6, 14686-14690.	5.6	54
97	A Biodegradable Multifunctional Graphene Oxide Platform for Targeted Cancer Therapy. Advanced Functional Materials, 2019, 29, 1901761.	14.9	54
98	Cationic gold nanoparticles elicit mitochondrial dysfunction: a multi-omics study. Scientific Reports, 2019, 9, 4366.	3.3	54
99	Apoptosis and macrophage clearance of neutrophils: regulation by reactive oxygen species. Redox Report, 2003, 8, 143-150.	4.5	53
100	Incidence of severe congenital neutropenia in Sweden and risk of evolution to myelodysplastic syndrome/leukaemia. British Journal of Haematology, 2012, 158, 363-369.	2.5	53
101	Skeletal Mineralization Deficits and Impaired Biogenesis and Function of Chondrocyte-Derived Matrix Vesicles in Phospho1â€“/â€“ and Phospho1/Pit1 Double-Knockout Mice. Journal of Bone and Mineral Research, 2016, 31, 1275-1286.	2.8	53
102	Graphene Oxide Attenuates Th2-Type Immune Responses, but Augments Airway Remodeling and Hyperresponsiveness in a Murine Model of Asthma. ACS Nano, 2014, 8, 5585-5599.	14.6	51
103	Plasma membrane sequestration of apoptotic protease-activating factor-1 in human B-lymphoma cells: a novel mechanism of chemoresistance. Blood, 2005, 105, 4070-4077.	1.4	50
104	Nanodrugs to target articular cartilage: An emerging platform for osteoarthritis therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 255-268.	3.3	50
105	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. Carbon, 2015, 91, 506-517.	10.3	49
106	Cobalt nanoparticles trigger ferroptosisâ€like cell death (oxytosis) in neuronal cells: Potential implications for neurodegenerative disease. FASEB Journal, 2020, 34, 5262-5281.	0.5	49
107	Co-targeting of the PI3K pathway improves the response of BRCA1 deficient breast cancer cells to PARP1 inhibition. Cancer Letters, 2012, 319, 232-241.	7.2	45
108	Fibrous nanocellulose, crystalline nanocellulose, carbon nanotubes, and crocidolite asbestos elicit disparate immune responses upon pharyngeal aspiration in mice. Journal of Immunotoxicology, 2018, 15, 12-23.	1.7	45

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109	Induction of apoptosis and caspase activation in cells obtained from familial haemophagocytic lymphohistiocytosis patients. British Journal of Haematology, 1999, 106, 406-415.	2.5	44
110	There's plenty of room at the forum: Potential risks and safety assessment of engineered nanomaterials. Nanotoxicology, 2007, 1, 73-84.	3.0	44
111	Transcriptional profiling reveals gene expression changes associated with inflammation and cell proliferation following shortâ€term inhalation exposure to copper oxide nanoparticles. Journal of Applied Toxicology, 2018, 38, 385-397.	2.8	44
112	Sizeâ€Dependent Pulmonary Impact of Thin Graphene Oxide Sheets in Mice: Toward Safeâ€byâ€Design. Advanced Science, 2020, 7, 1903200.	11.2	44
113	Proteasome inhibition induces apoptosis in primary human natural killer cells and suppresses NKp46-mediated cytotoxicity. Haematologica, 2009, 94, 470-478.	3.5	43
114	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4. Scientific Reports, 2016, 6, 21316.	3.3	43
115	The proteasome inhibitor bortezomib disrupts tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) expression and natural killer (NK) cell killing of TRAIL receptor-positive multiple myeloma cells. Molecular Immunology, 2010, 47, 2388-2396.	2.2	42
116	Toxicity of surface-modified copper oxide nanoparticles in a mouse macrophage cell line: Interplay of particles, surface coating and particle dissolution. Chemosphere, 2018, 196, 482-493.	8.2	40
117	Development of multi-drug loaded PEGylated nanodiamonds to inhibit tumor growth and metastasis in genetically engineered mouse models of pancreatic cancer. Nanoscale, 2019, 11, 22006-22018.	5.6	40
118	Induction of caspase- and reactive oxygen species-independent phosphatidylserine externalization in primary human neutrophils: role in macrophage recognition and engulfment. Journal of Leukocyte Biology, 2009, 85, 427-437.	3.3	39
119	Kostmann syndrome or infantile genetic agranulocytosis, part one: Celebrating 50 years of clinical and basic research on severe congenital neutropenia. Acta Paediatrica, International Journal of Paediatrics, 2006, 95, 1526-1532.	1.5	38
120	Antiapoptotic Role of Growth Factors in the Myelodysplastic Syndromes: Concordance Between In vitro and In vivo Observations. Clinical Cancer Research, 2005, 11, 6291-6299.	7.0	35
121	Ablation of the Pro-Apoptotic Protein Bax Protects Mice from Glucocorticoid-Induced Bone Growth Impairment. PLoS ONE, 2012, 7, e33168.	2.5	35
122	Low plasma levels of the protein pro-LL-37 as an early indication of severe disease in patients with chronic neutropenia. British Journal of Haematology, 2007, 137, 166-169.	2.5	34
123	Cytotoxic and Proinflammatory Effects of Metal-Based Nanoparticles on THP-1 Monocytes Characterized by Combined Proteomics Approaches. Journal of Proteome Research, 2017, 16, 689-697.	3.7	34
124	Dexamethasone differentially regulates Bcl-2 family proteins in human proliferative chondrocytes: Role of pro-apoptotic Bid. Toxicology Letters, 2014, 224, 196-200.	0.8	33
125	Toxicity of Metal and Metal Oxide Nanoparticles. , 2015, , 75-112.		33
126	Proteasome Inhibition Up-regulates p53 and Apoptosis-Inducing Factor in Chondrocytes Causing Severe Growth Retardation in Mice. Cancer Research, 2007, 67, 10078-10086.	0.9	31

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127	Tumor selective uptake of drug-nanodiamond complexes improves therapeutic outcome in pancreatic cancer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 18, 112-121.	3.3	31
128	Neutrophil elastase and granulocyte colony-stimulating factor receptor mutation analyses and leukemia evolution in severe congenital neutropenia patients belonging to the original Kostmann family in northern Sweden. Haematologica, 2006, 91, 589-95.	3.5	30
129	Syntaxinâ€11 is expressed in primary human monocytes/macrophages and acts as a negative regulator of macrophage engulfment of apoptotic cells and IgGâ€opsonized target cells. British Journal of Haematology, 2008, 142, 469-479.	2.5	29
130	Linearâ€dendritic polymeric amphiphiles as carriers of doxorubicinâ€"In vitro evaluation of biocompatibility and drug delivery. Journal of Polymer Science Part A, 2012, 50, 217-226.	2.3	29
131	Humanin is a novel regulator of Hedgehog signaling and prevents glucocorticoidâ€induced bone growth impairment. FASEB Journal, 2019, 33, 4962-4974.	0.5	29
132	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. JPhys Materials, 2020, 3, 034009.	4.2	29
133	Familial Hemophagocytic Lymphohistiocytosis: Too Little Cell Death Can Seriously Damage Your Health. Leukemia and Lymphoma, 2001, 42, 13-20.	1.3	28
134	Buried alive: a novel approach to cancer treatment. FASEB Journal, 2004, 18, 1-4.	0.5	28
135	Stromal-derived factor-1 abolishes constitutive apoptosis of WHIM syndrome neutrophils harbouring a truncating CXCR4 mutation. British Journal of Haematology, 2006, 134, 640-644.	2.5	28
136	Copper oxide nanoparticles trigger macrophage cell death with misfolding of Cu/Zn superoxide dismutase 1 (SOD1). Particle and Fibre Toxicology, 2022, 19, 33.	6.2	28
137	The bio-nano-interface in predicting nanoparticle fate and behaviour in living organisms: towards grouping and categorising nanomaterials and ensuring nanosafety by design. BioNanoMaterials, 2013, 14, .	1.4	27
138	NÎ±-Tosyl-l-phenylalanine Chloromethyl Ketone Induces Caspase-dependent Apoptosis in Transformed Human B Cell Lines with Transcriptional Down-regulation of Anti-apoptotic HS1-associated Protein X-1. Journal of Biological Chemistry, 2009, 284, 27827-27837.	3.4	26
139	INSIdE NANO: a systems biology framework to contextualize the mechanism-of-action of engineered nanomaterials. Scientific Reports, 2019, 9, 179.	3.3	26
140	Nitric oxide-dependent biodegradation of graphene oxide reduces inflammation in the gastrointestinal tract. Nanoscale, 2020, 12, 16730-16737.	5.6	26
141	Risk Management Framework for Nano-Biomaterials Used in Medical Devices and Advanced Therapy Medicinal Products. Materials, 2020, 13, 4532.	2.9	26
142	Two pathways of apoptosis induced with all-trans retinoic acid and etoposide in the myeloid cell line P39. Experimental Hematology, 1999, 27, 1322-1329.	0.4	25
143	Differentiation-Promoting Culture of Competent and Noncompetent Keratinocytes Identifies Biomarkers for Head and Neck Cancer. American Journal of Pathology, 2012, 180, 457-472.	3.8	25
144	Multiparametric Profiling of Engineered Nanomaterials: Unmasking the Surface Coating Effect. Advanced Science, 2020, 7, 2002221.	11.2	24

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145	Multi-walled carbon nanotubes trigger lysosome-dependent cell death (pyroptosis) in macrophages but not in neutrophils. Nanotoxicology, 2021, 15, 1125-1150.	3.0	24
146	Epstein-Barr virus-encoded latent membrane protein 1 promotes stress-induced apoptosis upstream of caspase-2-dependent mitochondrial perturbation. International Journal of Cancer, 2005, 113, 397-405.	5.1	23
147	Fantastic voyage and opportunities of engineered nanomaterials: What are the potential risks of occupational exposures?. Journal of Occupational and Environmental Medicine, 2010, 52, 943-946.	1.7	23
148	JAGN1 is required for fungal killing in neutrophil extracellular traps: Implications for severe congenital neutropenia. Journal of Leukocyte Biology, 2018, 104, 1199-1213.	3.3	23
149	The Right Stuff: On the Future of Nanotoxicology. Frontiers in Toxicology, 2019, 1, 1.	3.1	23
150	Mapping of the linear site on the Fas/APO-1 molecule targeted by the prototypic anti-Fas mAb. International Immunology, 1995, 7, 1967-1975.	4.0	22
151	Sequence analysis of the granulysin and granzyme B genes in familial hemophagocytic lymphohistiocytosis. Human Genetics, 2003, 112, 98-99.	3.8	22
152	Betulinic acid, a natural cytotoxic agent, fails to trigger apoptosis in human Burkitt's lymphoma-derived B-cell lines. International Journal of Cancer, 2006, 118, 246-252.	5.1	22
153	Phosphatidylserine exposure in Fas type I cells is mitochondriaâ€dependent. FEBS Letters, 2003, 545, 110-114.	2.8	21
154	Proapoptotic effects of the novel proteasome inhibitor b-AP15 on multiple myeloma cells and natural killer cells. Experimental Hematology, 2014, 42, 172-182.	0.4	21
155	Understanding the bidirectional interactions between two-dimensional materials, microorganisms, and the immune system. Advanced Drug Delivery Reviews, 2022, 188, 114422.	13.7	21
156	NanoMiner â€" Integrative Human Transcriptomics Data Resource for Nanoparticle Research. PLoS ONE, 2013, 8, e68414.	2.5	20
157	No small matter: a perspective on nanotechnology-enabled solutions to fight COVID-19. Nanomedicine, 2020, 15, 2411-2427.	3.3	19
158	Hollow carbon spheres trigger inflammasome-dependent IL-1Î² secretion in macrophages. Carbon, 2017, 113, 243-251.	10.3	18
159	Brave new world revisited: Focus on nanomedicine. Biochemical and Biophysical Research Communications, 2020, 533, 36-49.	2.1	18
160	Nextâ€Generation Sequencing Reveals Differential Responses to Acute versus Longâ€Term Exposures to Graphene Oxide in Human Lung Cells. Small, 2020, 16, e1907686.	10.0	18
161	Silver nanoparticles modulate lipopolysaccharide-triggered Toll-like receptor signaling in immune-competent human cell lines. Nanoscale Advances, 2020, 2, 648-658.	4.6	18
162	VR-3848, a novel peptide derived from Euphobiaceae, induces mitochondria-dependent apoptosis in human leukemia cells. Cancer Letters, 2004, 208, 171-178.	7.2	17

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163	AIF and Scythe (Bat3) Regulate Phosphatidylserine Exposure and Macrophage Clearance of Cells Undergoing Fas (APO-1)-Mediated Apoptosis. PLoS ONE, 2012, 7, e47328.	2.5	16
164	Exploring the antiâ€apoptotic role of HAXâ€1 versus BCLâ€X_L in cytokineâ€dependent bone marrowâ€derived cells from mice. FEBS Letters, 2014, 588, 2921-2927.	2.8	16
165	Programmed cell clearance: From nematodes to humans. Biochemical and Biophysical Research Communications, 2017, 482, 491-497.	2.1	16
166	Keratinocytes are capable of selectively sensing low amounts of graphene-based materials: Implications for cutaneous applications. Carbon, 2020, 159, 598-610.	10.3	16
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168	Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. Journal of Hazardous Materials, 2022, 435, 129053.	12.4	16
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