Ãfrica GonzÃ¡lez-FernÃ¡ndez

List of Publications by Year
in descending order

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134 papers	6,617 citations	81900 39 h-index	66911 78 g-index
137 all docs	137 docs citations	137 times ranked	10554 citing authors

#	Article	IF	Citations
1	Minireview: Nanoparticles and the Immune System. Endocrinology, 2010, 151, 458-465.	2.8	769
2	Assessment of the Evolution of Cancer Treatment Therapies. Cancers, 2011, 3, 3279-3330.	3.7	624
3	Elements regulating somatic hypermutation of an immunoglobulin Î¹ gene: Critical role for the intron enhancer/matrix attachment region. Cell, 1994, 77, 239-248.	28.9	391
4	Uncoupling of GTP hydrolysis from eIF6 release on the ribosome causes Shwachman-Diamond syndrome. Genes and Development, 2011, 25, 917-929.	5.9	247
5	Antibody-Conjugated Nanoparticles for Biomedical Applications. Journal of Nanomaterials, 2009, 2009, 1-24.	2.7	232
6	Targeting of non-Ig sequences in place of the V segment by somatic hyper mutation. Nature, 1995, 376, 225-229.	27.8	229
7	Heparinâ€Engineered Mesoporous Iron Metalâ€Organic Framework Nanoparticles: Toward Stealth Drug Nanocarriers. Advanced Healthcare Materials, 2015, 4, 1246-1257.	7.6	187
8	Assessing Methods for Blood Cell Cytotoxic Responses to Inorganic Nanoparticles and Nanoparticle Aggregates. Small, 2008, 4, 2025-2034.	10.0	166
9	Chitosan-based nanoparticles for improving immunization against hepatitis B infection. Vaccine, 2010, 28, 2607-2614.	3.8	157
10	Monosaccharides versus PEG-Functionalized NPs: Influence in the Cellular Uptake. ACS Nano, 2012, 6, 1565-1577.	14.6	131
11	Roadmap and strategy for overcoming infusion reactions to nanomedicines. Nature Nanotechnology, 2018, 13, 1100-1108.	31.5	130
12	Chitosan-coated mesoporous MIL-100(Fe) nanoparticles as improved bio-compatible oral nanocarriers. Scientific Reports, 2017, 7, 43099.	3.3	114
13	Analysis of somatic hypermutation in mouse Peyer's patches using immunoglobulin kappa light-chain transgenes.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 9862-9866.	7.1	100
14	Rapid Identification and Quantification of Tumor Cells Using an Electrocatalytic Method Based on Gold Nanoparticles. Analytical Chemistry, 2009, 81, 10268-10274.	6.5	100
15	Label-free SERS detection of relevant bioanalytes on silver-coated carbon nanotubes: The case of cocaine. Nanoscale, 2009, 1, 153.	5.6	98
16	A biocompatible porous Mg-gallate metalâ€“organic framework as an antioxidant carrier. Chemical Communications, 2015, 51, 5848-5851.	4.1	98
17	Human immunology and immunotherapy: main achievements and challenges. Cellular and Molecular Immunology, 2021, 18, 805-828.	10.5	96
18	The 5â€² boundary of somatic hypermutation in a Vï‡ gene is in the leader intron. European Journal of Immunology, 1994, 24, 1453-1457.	2.9	91

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19	Gold nanoparticle-based electrochemical magnetoimmunosensor for rapid detection of anti-hepatitis B virus antibodies in human serum. Biosensors and Bioelectronics, 2010, 26, 1710-1714.	10.1	89
20	Macrophage scavenger receptor A mediates the uptake of gold colloids by macrophages in vitro. Nanomedicine, 2011, 6, 1175-1188.	3.3	88
21	Immune responses to polysaccharides: Lessons from humans and mice. Vaccine, 2008, 26, 292-300.	3.8	87
22	Cytokines dysregulation in schizophrenia: A systematic review of psychoneuroimmune relationship. Schizophrenia Research, 2018, 197, 19-33.	2.0	77
23	Somatic mutation of immunoglobulin lambda chains: a segment of the major intron hypermutates as much as the complementarity-determining regions.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 12614-12618.	7.1	71
24	Co-delivery of viral proteins and a TLR7 agonist from polysaccharide nanocapsules: A needle-free vaccination strategy. Journal of Controlled Release, 2013, 172, 773-781.	9.9	71
25	GraftFast Surface Engineering to Improve MOF Nanoparticles Furtiveness. Small, 2018, 14, e1801900.	10.0	69
26	Sterilization Matters: Consequences of Different Sterilization Techniques on Gold Nanoparticles. Small, 2010, 6, 89-95.	10.0	65
27	Apoptosis in human thymocytes after treatment with glucocorticoids. Clinical and Experimental Immunology, 2008, 88, 341-344.	2.6	62
28	Surface Engineered Poly(lactide-co-glycolide) Nanoparticles for Intracellular Delivery: Uptake and Cytotoxicityâ€"A Confocal Raman Microscopic Study. Biomacromolecules, 2010, 11, 2993-2999.	5.4	58
29	Rapid isolation of single-chain antibodies by phage display technology directed against one of the most potent marine toxins: Palytoxin. Toxicon, 2010, 55, 1519-1526.	1.6	55
30	Conformational changes in human plasma proteins induced by metal oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2014, 113, 198-206.	5.0	54
31	Self-mineralizing Ca-enriched methacrylated gellan gum beads for bone tissue engineering. Acta Biomaterialia, 2019, 93, 74-85.	8.3	51
32	Pathogen-mimetic stealth nanocarriers for drug delivery: a future possibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 730-743.	3.3	50
33	Comparative Responses to Metal Oxide Nanoparticles in Marine Phytoplankton. Archives of Environmental Contamination and Toxicology, 2014, 67, 483-493.	4.1	50
34	A Polymer/Oil Based Nanovaccine as a Single-Dose Immunization Approach. PLoS ONE, 2013, 8, e62500.	2.5	49
35	A quantitative binding study of fibrinogen and human serum albumin to metal oxide nanoparticles by surface plasmon resonance. Biosensors and Bioelectronics, 2015, 74, 376-383.	10.1	49
36	Biocompatibility of a self-assembled glycol chitosan nanogel. Toxicology in Vitro, 2015, 29, 638-646.	2.4	47

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37	Uptake, Biological Fate, and Toxicity of Metal Oxide Nanoparticles. Particle and Particle Systems Characterization, 2014, 31, 24-35.	2.3	43
38	Non-random features of the repertoire expressed by the members of one Vx gene family and of the V-J recombination. European Journal of Immunology, 1992, 22, 1627-1634.	2.9	42
39	Edible Bio-Based Nanostructures: Delivery, Absorption and Potential Toxicity. Food Engineering Reviews, 2015, 7, 491-513.	5.9	41
40	Age-related decrease in the proportion of germinal center B cells from mouse Peyer's patches is accompanied by an accumulation of somatic mutations in their immunoglobulin genes. European Journal of Immunology, 1994, 24, 2918-2921.	2.9	40
41	Low antigen dose favours selection of somatic mutants with hallmarks of antibody affinity maturation. Immunology, 1998, 93, 149-153.	4.4	40
42	Comparative Evaluation of Enzyme-Linked Immunoassay and Reference Methods for the Detection of Shellfish Hydrophilic Toxins in Several Presentations of Seafood. Journal of Agricultural and Food Chemistry, 2010, 58, 1410-1415.	5.2	36
43	Polymeric Nanocapsules for Vaccine Delivery: Influence of the Polymeric Shell on the Interaction With the Immune System. Frontiers in Immunology, 2018, 9, 791.	4.8	36
44	Potential impact of metal oxide nanoparticles on the immune system: The role of integrins, L-selectin and the chemokine receptor CXCR4. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1301-1310.	3.3	34
45	Lactoferrin-based nanoparticles as a vehicle for iron in food applications â€“ Development and release profile. Food Research International, 2016, 90, 16-24.	6.2	34
46	Direct surface plasmon resonance immunosensor for in situ detection of benzoylecgonine, the major cocaine metabolite. Biosensors and Bioelectronics, 2011, 26, 4423-4428.	10.1	31
47	Interferon-Â release assays in tuberculosis contacts: is there a window period?. European Respiratory Journal, 2011, 37, 215-217.	6.7	31
48	Crystal structure dependent in vitro antioxidant activity of biocompatible calcium gallate MOFs. Journal of Materials Chemistry B, 2017, 5, 2813-2822.	5.8	31
49	Natural killer (NK) cell-based immunotherapies and the many faces of NK cell memory: A look into how nanoparticles enhance NK cell activity. Advanced Drug Delivery Reviews, 2021, 176, 113860.	13.7	31
50	Bilayer polymeric nanocapsules: A formulation approach for a thermostable and adjuvanted E. coli antigen vaccine. Journal of Controlled Release, 2018, 286, 20-32.	9.9	30
51	The size and composition of polymeric nanocapsules dictate their interaction with macrophages and biodistribution in zebrafish. Journal of Controlled Release, 2019, 308, 98-108.	9.9	30
52	Cytotoxicity effects of metal oxide nanoparticles in human tumor cell lines. Journal of Physics: Conference Series, 2011, 304, 012046.	0.4	29
53	Metal oxide nanoparticles interact with immune cells and activate different cellular responses. International Journal of Nanomedicine, 2016, Volume 11, 4657-4668.	6.7	29
54	Serum proteomics of active tuberculosis patients and contacts reveals unique processes activated during Mycobacterium tuberculosis infection. Scientific Reports, 2020, 10, 3844.	3.3	29

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55	Stealth monoolein-based nanocarriers for delivery of siRNA to cancer cells. Acta Biomaterialia, 2015, 25, 216-229.	8.3	28
56	The response in old mice: positive and negative immune memory after priming in early age. International Immunology, 2001, 13, 1213-1221.	4.0	27
57	Protamine-based nanoparticles as new antigen delivery systems. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 97, 51-59.	4.3	27
58	Molecular characterization of B-cell epitopes for the major fish allergen, parvalbumin, by shotgun proteomics, protein-based bioinformatics and IgE-reactive approaches. Journal of Proteomics, 2019, 200, 123-133.	2.4	26
59	Multi-parameter flow cytometry immunophenotyping distinguishes different stages of tuberculosis infection. Journal of Infection, 2020, 81, 57-71.	3.3	26
60	Improving dexamethasone drug loading and efficacy in treating arthritis through a lipophilic prodrug entrapped into PLGA-PEG nanoparticles. Drug Delivery and Translational Research, 2022, 12, 1270-1284.	5.8	26
61	Highly versatile immunostimulating nanocapsules for specific immune potentiation. Nanomedicine, 2014, 9, 2273-2289.	3.3	25
62	Fucoidans: The importance of processing on their anti-tumoral properties. Algal Research, 2020, 45, 101748.	4.6	25
63	An RNA-seq Based Machine Learning Approach Identifies Latent Tuberculosis Patients With an Active Tuberculosis Profile. Frontiers in Immunology, 2020, 11, 1470.	4.8	25
64	Pseudo-nitzschia Blooms in a Coastal Upwelling System: Remote Sensing Detection, Toxicity and Environmental Variables. Water (Switzerland), 2019, 11, 1954.	2.7	24
65	Polymeric nanostructure vaccines: applications and challenges. Expert Opinion on Drug Delivery, 2020, 17, 1007-1023.	5.0	24
66	Protamine Nanocapsules for the Development of Thermostable Adjuvanted Nanovaccines. Molecular Pharmaceutics, 2018, 15, 5653-5664.	4.6	22
67	PAMAM dendrimers functionalised with an anti-TNF Î± antibody and chondroitin sulphate for treatment of rheumatoid arthritis. Materials Science and Engineering C, 2021, 121, 111845.	7.3	21
68	Identification of Mytilus galloprovincialis larvae from the Galician rÄ±Ìas by mouse monoclonal antibodies. Aquaculture, 2003, 219, 545-559.	3.5	20
69	Flagellin is a Th1 polarizing factor for human CD4+ T cells and induces protection in a murine neonatal vaccination model of rotavirus infection. Vaccine, 2018, 36, 4188-4197.	3.8	20
70	High-resolution quantitative proteomics applied to the study of the specific protein signature in the sputum and saliva of active tuberculosis patients and their infected and uninfected contacts. Journal of Proteomics, 2019, 195, 41-52.	2.4	20
71	Saccorhiza polyschides used to synthesize gold and silver nanoparticles with enhanced antiproliferative and immunostimulant activity. Materials Science and Engineering C, 2021, 123, 111960.	7.3	20
72	Feeding strategies of the copepod Acartia clausi on single and mixed diets of toxic and non-toxic strains of the dinoflagellate Alexandrium minutum. Marine Ecology - Progress Series, 2006, 316, 115-125.	1.9	20

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73	Autoantibodies to glial fibrillary acid protein and S100Î²2 in diabetic patients. Diabetic Medicine, 2010, 27, 246-248.	2.3	19
74	Design of Polymeric Nanocapsules for Intranasal Vaccination against Mycobacterium Tuberculosis: Influence of the Polymeric Shell and Antigen Positioning. Pharmaceutics, 2020, 12, 489.	4.5	19
75	Predominant role of interferon-Î³ in the host protective effect of CD8+ T cells against Neospora caninum infection. Scientific Reports, 2015, 5, 14913.	3.3	18
76	Synergistic Effect of Metal Oxide Nanoparticles on Cell Viability and Activation of MAP Kinases and NFÎºB. International Journal of Molecular Sciences, 2018, 19, 246.	4.1	17
77	PVM/MA-shelled selol nanocapsules promote cell cycle arrest in A549 lung adenocarcinoma cells. Journal of Nanobiotechnology, 2014, 12, 32.	9.1	16
78	Non-animal-derived monoclonal antibodies are not ready to substitute current hybridoma technology. Nature Methods, 2020, 17, 1069-1070.	19.0	16
79	Cracking the immune fingerprint of metalâ€“organic frameworks. Chemical Science, 2022, 13, 934-944.	7.4	16
80	The Impact of Thymic Antigen Diversity on the Size of the Selected T Cell Repertoire. Journal of Immunology, 2004, 172, 2247-2255.	0.8	15
81	Rearrangement of only one human IGHV gene is sufficient to generate a wide repertoire of antigen specific antibody responses in transgenic mice. Molecular Immunology, 2006, 43, 1827-1835.	2.2	15
82	Understanding thymus-independent antigen-induced reduction of thymus-dependent immune responses. Immunology, 2004, 112, 413-419.	4.4	14
83	Generation of monoclonal antibodies for the specific immunodetection of the toxic dinoflagellate Alexandrium minutum Halim from Spanish waters. Harmful Algae, 2010, 9, 272-280.	4.8	14
84	Tuberculin skin test and interferon-Î³ release assay show better correlation after the tuberculin â€˜window periodâ€™ in tuberculosis contacts. Scandinavian Journal of Infectious Diseases, 2011, 43, 424-429.	1.5	14
85	Multi-enveloping of particulated antigens with biopolymers and immunostimulant polynucleotides. Journal of Drug Delivery Science and Technology, 2015, 30, 424-434.	3.0	14
86	Analysis of the activation routes induced by different metal oxide nanoparticles on human lung epithelial cells. Future Science OA, 2016, 2, FSO118.	1.9	14
87	Identification of candidate host serum and saliva biomarkers for a better diagnosis of active and latent tuberculosis infection. PLoS ONE, 2020, 15, e0235859.	2.5	13
88	Value of the tuberculin skin testing and of an interferon-gamma release assay in haemodialysis patients after exposure to M. tuberculosis. BMC Infectious Diseases, 2012, 12, 195.	2.9	12
89	In situ nanofabrication of hybrid PEG-dendriticâ€“inorganic nanoparticles and preliminary evaluation of their biocompatibility. Nanoscale, 2015, 7, 3933-3940.	5.6	11
90	Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. Nanomaterials, 2020, 10, 1430.	4.1	11

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91	Two monoclonal antibodies for the recognition of Mytilus spp. larvae: studies on cultured larvae and tests on plankton samples. Aquaculture, 2005, 250, 736-747.	3.5	10
92	Galectin-1 synthesis in type 1 diabetes by different immune cell types: Reduced synthesis by monocytes and Th1 cells. Cellular Immunology, 2011, 271, 319-328.	3.0	10
93	Characterization of the autoimmune response against the nerve tissue S100Î² in patients with type 1 diabetes. Clinical and Experimental Immunology, 2015, 180, 207-217.	2.6	10
94	Early treatment of tuberculous uveitis improves visual outcome: a 10-year cohort study. Infection, 2018, 46, 549-554.	4.7	10
95	Nanoparticles and trained immunity: Glimpse into the future. Advanced Drug Delivery Reviews, 2021, 175, 113821.	13.7	10
96	Antitumor activity and systemic effects of PVM/MA-shelled selol nanocapsules in lung adenocarcinoma-bearing mice. Nanotechnology, 2015, 26, 505101.	2.6	9
97	<scp>MSP</scp>22.8 is a protease inhibitorâ€like protein involved in shell mineralization in the edible mussel Mytilus galloprovincialis. FEBS Open Bio, 2017, 7, 1539-1556.	2.3	9
98	Systemic Treatment of Fabry Disease Using a Novel AAV9 Vector Expressing Î±-Galactosidase A. Molecular Therapy - Methods and Clinical Development, 2021, 20, 1-17.	4.1	9
99	Characterization of a Monoclonal Antibody Directed against Mytilus spp Larvae Reveals an Antigen Involved in Shell Biomineralization. PLoS ONE, 2016, 11, e0152210.	2.5	9
100	Central Role of Semaphorin 3B in a Serumâ€Induced Arthritis Model and Reduced Levels in Patients With Rheumatoid Arthritis. Arthritis and Rheumatology, 2022, 74, 972-983.	5.6	9
101	The use of transgenic mice for the production of a human monoclonal antibody specific for human CD69 antigen. Journal of Immunological Methods, 2003, 282, 147-158.	1.4	8
102	Immunodetection of Mytilus galloprovincialis larvae using monoclonal antibodies to monitor larval abundance on the Galician coast: Optimization of the method and comparison with identification by morphological traits. Aquaculture, 2009, 294, 86-92.	3.5	8
103	Changes in the Immune Phenotype and Gene Expression Profile Driven by a Novel Tuberculosis Nanovaccine: Short and Long-Term Post-immunization. Frontiers in Immunology, 2020, 11, 589863.	4.8	8
104	Methacrylated Gellan Gum/Poly-<scp>l</scp>-lysine Polyelectrolyte Complex Beads for Cell-Based Therapies. ACS Biomaterials Science and Engineering, 2021, 7, 4898-4913.	5.2	8
105	Synergistic Antitumoral Effect of Epigenetic Inhibitors and Gemcitabine in Pancreatic Cancer Cells. Pharmaceuticals, 2022, 15, 824.	3.8	8
106	Antigen-Specific Human Monoclonal Antibodies from Transgenic Mice. Methods in Molecular Biology, 2014, 1060, 245-276.	0.9	7
107	Generation of a human IgM monoclonal antibody directed against HLA class II molecules: a potential agent in the treatment of haematological malignancies. Cancer Immunology, Immunotherapy, 2009, 58, 351-360.	4.2	6
108	Interference of Metal Oxide Nanoparticles with Coagulation Cascade and Interaction with Blood Components. Particle and Particle Systems Characterization, 2019, 36, 1800547.	2.3	6

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109	Proliferative responses induced by the activation of protein kinase C during the development of human T lymphocytes. European Journal of Immunology, 1991, 21, 115-121.	2.9	5
110	Somatic Hypermutation of Ig Genes is Affected Differently by Failures in Apoptosis Caused by Disruption of Fas (lpr Mutation) or by Overexpression of Bcl-2. Scandinavian Journal of Immunology, 2006, 63, 420-429.	2.7	5
111	Erythema induratum of Bazin induced by tuberculin skin test. International Journal of Dermatology, 2015, 54, 1297-1299.	1.0	4
112	Editorial: Nanoparticle Vaccines Against Infectious Diseases. Frontiers in Immunology, 2019, 10, 2615.	4.8	4
113	Antigen-Specific Human Monoclonal Antibodies from Transgenic Mice. Methods in Molecular Biology, 2019, 1904, 253-291.	0.9	4
114	Combined Inhibition of FOSL-1 and YAP Using siRNA-Lipoplexes Reduces the Growth of Pancreatic Tumor. Cancers, 2022, 14, 3102.	3.7	4
115	Age-related accumulation of memory cells in mouse Peyer's patches. Immunology Letters, 2002, 83, 39-45.	2.5	3
116	CÃ©sar Milstein: 35 aÃ±os de anticuerpos monoclonales. Inmunologia (Barcelona, Spain: 1987), 2011, 30, 30-33.	0.1	3
117	Sensitive and non-invasive method for the in vivo analysis of membrane permeability in small animals. Laboratory Investigation, 2017, 97, 1114-1120.	3.7	3
118	Contribution and Future of High-Throughput Transcriptomics in Battling Tuberculosis. Frontiers in Microbiology, 2022, 13, 835620.	3.5	3
119	Production of Antigen-Specific Human Monoclonal Antibodies: Comparison of Mice Carrying IgH/Îº or IgH/Îº/Î» Transloci. BioTechniques, 2002, 33, 680-690.	1.8	2
120	Nanotoxicology. Frontiers of Nanoscience, 2012, 4, 443-485.	0.6	1
121	Nanostructures and Allergy. Frontiers in Nanobiomedical Research, 2013, , 517-545.	0.1	1
122	Michael Neuberger (1953-2013), in memoriam. Inmunologia (Barcelona, Spain: 1987), 2014, 33, 34-37.	0.1	1
123	Use of a monoclonal antibody-based assay for the early detection of an invasive bivalve in plankton samples. Marine Pollution Bulletin, 2018, 133, 320-327.	5.0	1
124	New trends in immunotherapy. Inmunologia (Barcelona, Spain: 1987), 2011, 30, 128-134.	0.1	0
125	Eje interleucina 12/interferÃ³n gamma en pacientes de tuberculosis en una regiÃ³n europea con alta incidencia de enfermedad. Inmunologia (Barcelona, Spain: 1987), 2011, 30, 36-44.	0.1	0
126	Dr. Gregory Winter y Dr. Richard A. Lerner, Premios PrÃncipe de Asturias de InvestigaciÃ³n CientÃfica y TÃ©cnica 2012. Inmunologia (Barcelona, Spain: 1987), 2012, 31, 127-134.	0.1	0

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127	Phage display techniques to obtain antibodies against turbot (Scophthalmus maximus) blood cells. Fish and Shellfish Immunology, 2013, 34, 1723.	3.6	0
128	CientÃficos espaÃ±oles con los Dres. Greg Winter y Richard A. Lerner, premios PrÃncipe de Asturias en InvestigaciÃ³n CientÃfica y TÃ©cnica 2012. Inmunologia (Barcelona, Spain: 1987), 2013, 32, 70-74.	0.1	0
129	Evaluating the Interactions Between Proteins and Components of the Immune System with Polymer Nanoparticles. , 2016, , 221-289.		0
130	Sterilization Case Study 1: Effects of Different Sterilization Techniques on Gold Nanoparticles. Frontiers in Nanobiomedical Research, 2016, , 77-92.	0.1	0
131	Nanostructures and Allergy. Frontiers in Nanobiomedical Research, 2016, , 241-269.	0.1	0
132	Chitosan-engineered metalâ€“organic frameworks as oral drug nanocarriers. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1281-C1281.	0.1	0
133	High-resolution quantitative proteomics applied to the discovery of biomarkers of innate immune response in tuberculosis.. , 2018, , .		0
134	Editorial to â€œJourney into the immunological properties of engineered nanomaterials: There and back againâ€• Advanced Drug Delivery Reviews, 2022, 181, 114100.	13.7	0