

Gold Nanoparticles as a Vaccine Platform: Influence of S Responses *in Vitro* and *in Vivo*

ACS Nano

7, 3926-3938

DOI: 10.1021/nn3057005

Citation Report

#	ARTICLE	IF	CITATIONS
1	Paul Ricoeur et le pardon comme au-delà de l'acte*. Laval Theologique Et Philosophique, 2007, 63, 363-376.	0.1	2
2	Gold nanoparticles synthesized by Geobacillus sp. strain ID17 a thermophilic bacterium isolated from Deception Island, Antarctica. Microbial Cell Factories, 2013, 12, 75.	4.0	173
3	The Adjuvant Effect of Emerging Nanomaterials: A Double-Edged Sword. ACS Symposium Series, 2013, , 3-21.	0.5	3
4	Controlling melanoma at local and systemic levels: is a combination of ablative therapy and immunotherapy the way forward?. Immunotherapy, 2014, 6, 109-111.	2.0	11
5	In Vivo Immune Cell Distribution of Gold Nanoparticles in Naïve and Tumor Bearing Mice. Small, 2014, 10, 812-819.	10.0	59
6	From Immunotoxicity to Nanotherapy: The Effects of Nanomaterials on the Immune System. Toxicological Sciences, 2014, 138, 249-255.	3.1	58
7	Gold nanoparticle conjugates: recent advances toward clinical applications. Expert Opinion on Drug Delivery, 2014, 11, 741-752.	5.0	121
8	Viral nanoparticles as antigen carriers: influence of shape on humoral immune responses in vivo. RSC Advances, 2014, 4, 23017-23021.	3.6	6
9	Nanoparticles with Dual Responses to Oxidative Stress and Reduced pH for Drug Release and Anti-inflammatory Applications. ACS Nano, 2014, 8, 1213-1221.	14.6	162
10	Gold nanoparticle mediated cancer immunotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 503-514.	3.3	187
11	A safe-by-design approach to the development of gold nanoboxes as carriers for internalization into cancer cells. Biomaterials, 2014, 35, 2543-2557.	11.4	41
12	Chondroitin sulfate-capped gold nanoparticles for the oral delivery of insulin. International Journal of Biological Macromolecules, 2014, 63, 15-20.	7.5	76
13	Nanoparticle vaccines. Vaccine, 2014, 32, 327-337.	3.8	737
14	Conjugation of Gold Nanorods with Bovine Serum Albumin Protein. Journal of Physical Chemistry C, 2014, 118, 27459-27464.	3.1	34
15	Functional Nanomaterials Can Optimize the Efficacy of Vaccines. Small, 2014, 10, 4505-4520.	10.0	52
16	Enhanced intracellular translocation and biodistribution of gold nanoparticles functionalized with a cell-penetrating peptide (VG-21) from vesicular stomatitis virus. Biomaterials, 2014, 35, 9484-9494.	11.4	64
17	Oral delivery of nanoparticle-based vaccines. Expert Review of Vaccines, 2014, 13, 1361-1376.	4.4	120
18	Delivering Colloidal Nanoparticles to Mammalian Cells: A Nano-Bio Interface Perspective. Advanced Healthcare Materials, 2014, 3, 957-976.	7.6	39

#	ARTICLE	IF	CITATIONS
19	Surface chemistry dependent immunostimulative potential of porous silicon nanoplatfoms. <i>Biomaterials</i> , 2014, 35, 9224-9235.	11.4	72
20	Ultrasml Graphene Oxide Supported Gold Nanoparticles as Adjuvants Improve Humoral and Cellular Immunity in Mice. <i>Advanced Functional Materials</i> , 2014, 24, 6963-6971.	14.9	58
21	Surface engineering of nanoparticles for therapeutic applications. <i>Polymer Journal</i> , 2014, 46, 460-468.	2.7	136
22	Combatting infectious diseases; nanotechnology as a platform for rational vaccine design. <i>Advanced Drug Delivery Reviews</i> , 2014, 74, 28-34.	13.7	47
23	Gold Nanoparticles Displaying Tumor-Associated Self-Antigens as a Potential Vaccine for Cancer Immunotherapy. <i>Advanced Healthcare Materials</i> , 2014, 3, 1194-1199.	7.6	92
24	The complex cascade of cellular events governing inflammasome activation and IL-1 β processing in response to inhaled particles. <i>Particle and Fibre Toxicology</i> , 2015, 13, 40.	6.2	68
25	Investigating structural aspects to understand the putative/claimed non-toxicity of the Hg-based Ayurvedic drug <i>Rasasindura</i> using XAFS. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1233-1241.	2.4	14
27	<i>In Vitro</i> AuNPs' Cytotoxicity and Their Effect on Wound Healing. <i>Nanobiomedicine</i> , 2015, 2, 7.	5.7	49
28	Non-Carrier Nanoparticles Adjuvant Modular Protein Vaccine in a Particle-Dependent Manner. <i>PLoS ONE</i> , 2015, 10, e0117203.	2.5	18
29	Polyelectrolyte Multilayers Assembled Entirely from Immune Signals on Gold Nanoparticle Templates Promote Antigen-Specific T Cell Response. <i>ACS Nano</i> , 2015, 9, 6465-6477.	14.6	134
30	Intranasal and oral vaccination with protein-based antigens: advantages, challenges and formulation strategies. <i>Protein and Cell</i> , 2015, 6, 480-503.	11.0	115
31	Nanoparticle interaction with the immune system / Interakcije nanodelcev z imunskim sistemom. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2015, 66, 97-108.	0.7	72
32	Uptake efficiency of surface modified gold nanoparticles does not correlate with functional changes and cytokine secretion in human dendritic cells in vitro. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 633-644.	3.3	78
33	Non-spherical micro- and nanoparticles: fabrication, characterization and drug delivery applications. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 481-492.	5.0	58
34	Particulate inorganic adjuvants: recent developments and future outlook. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 426-449.	2.4	31
35	Polycation-functionalized gold nanoparticles with different morphologies for superior gene transfection. <i>Nanoscale</i> , 2015, 7, 5281-5291.	5.6	57
36	Influence of ligand distribution on uptake efficiency. <i>Soft Matter</i> , 2015, 11, 2726-2730.	2.7	49
37	Multivalent Nanomaterials: Learning from Vaccines and Progressing to Antigen-Specific Immunotherapies. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 346-361.	3.3	37

#	ARTICLE	IF	CITATIONS
38	Gold nanoparticles and vaccine development. <i>Expert Review of Vaccines</i> , 2015, 14, 1197-1211.	4.4	69
39	Synthetic Nanoparticles for Vaccines and Immunotherapy. <i>Chemical Reviews</i> , 2015, 115, 11109-11146.	47.7	623
40	Gold nanocluster-based vaccines for dual-delivery of antigens and immunostimulatory oligonucleotides. <i>Nanoscale</i> , 2015, 7, 12419-12426.	5.6	44
41	Glyconanotechnology and Disease: Gold Nanoparticles Coated with Glycosides as Multivalent Systems for Potential Applications in Diagnostics and Therapy. <i>RSC Drug Discovery Series</i> , 2015, , 89-131.	0.3	2
42	Dendrimer-like alpha-d-glucan nanoparticles activate dendritic cells and are effective vaccine adjuvants. <i>Journal of Controlled Release</i> , 2015, 204, 51-59.	9.9	82
43	Shape and size-dependent immune response to antigen-carrying nanoparticles. <i>Journal of Controlled Release</i> , 2015, 220, 141-148.	9.9	235
44	Nanovaccines for malaria using <i>Plasmodium falciparum</i> antigen Pfs25 attached gold nanoparticles. <i>Vaccine</i> , 2015, 33, 5064-5071.	3.8	75
45	Assessing the effect of different shapes of glyco-gold nanoparticles on bacterial adhesion and infections. <i>Chemical Communications</i> , 2015, 51, 15669-15672.	4.1	27
46	Use of a synthetic foot-and-mouth disease virus peptide conjugated to gold nanoparticles for enhancing immunological response. <i>Gold Bulletin</i> , 2015, 48, 93-101.	2.4	20
47	Intracellular accumulation and immunological properties of fluorescent gold nanoclusters in human dendritic cells. <i>Biomaterials</i> , 2015, 43, 1-12.	11.4	100
48	Overcoming transport barriers for interstitial-, lymphatic-, and lymph node-targeted drug delivery. <i>Current Opinion in Chemical Engineering</i> , 2015, 7, 65-74.	7.8	95
49	In vivo Gold Nanoparticle Delivery of Peptide Vaccine Induces Anti-Tumor Immune Response in Prophylactic and Therapeutic Tumor Models. <i>Small</i> , 2015, 11, 1453-1459.	10.0	141
50	The importance of nanoparticle shape in cancer drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 129-142.	5.0	455
51	Particle size- and number-dependent delivery to cells by layered double hydroxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 10-16.	9.4	28
52	An Update on NLRP3 Inflammasome Activation by Engineered Nanomaterials. <i>Current Bionanotechnology</i> , 2016, 2, 40-46.	0.6	1
53	Development of nanostructures in the diagnosis of drug hypersensitivity reactions. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2016, 16, 300-307.	2.3	10
54	Gold nanoparticles and their applications in biomedicine. <i>Future Virology</i> , 2016, 11, 293-309.	1.8	82
55	Glyco-gold nanoparticle shapes enhance carbohydrate-protein interactions in mammalian cells. <i>Nanoscale</i> , 2016, 8, 12729-12735.	5.6	34

#	ARTICLE	IF	CITATIONS
56	Various methods of gold nanoparticles (GNPs) conjugation to antibodies. Sensing and Bio-Sensing Research, 2016, 9, 17-22.	4.2	357
57	Orchestrating immune responses: How size, shape and rigidity affect the immunogenicity of particulate vaccines. Journal of Controlled Release, 2016, 234, 124-134.	9.9	188
58	Vaccine technologies: From whole organisms to rationally designed protein assemblies. Biochemical Pharmacology, 2016, 120, 1-14.	4.4	200
59	Well-Defined Peapod-like Magnetic Nanoparticles and Their Controlled Modification for Effective Imaging Guided Gene Therapy. ACS Applied Materials & Interfaces, 2016, 8, 11298-11308.	8.0	46
60	Inhibition of lanthanide nanocrystal-induced inflammasome activation in macrophages by a surface coating peptide through abrogation of ROS production and TRPM2-mediated Ca ²⁺ influx. Biomaterials, 2016, 108, 143-156.	11.4	30
61	High-content analysis of factors affecting gold nanoparticle uptake by neuronal and microglial cells in culture. Nanoscale, 2016, 8, 16650-16661.	5.6	25
62	Shape Effect of Glyco-Nanoparticles on Macrophage Cellular Uptake and Immune Response. ACS Macro Letters, 2016, 5, 1059-1064.	4.8	112
63	Reverse Size Dependences of the Cellular Uptake of Triangular and Spherical Gold Nanoparticles. Langmuir, 2016, 32, 12559-12567.	3.5	74
64	Engineering nanoparticles to overcome barriers to immunotherapy. Bioengineering and Translational Medicine, 2016, 1, 47-62.	7.1	114
65	Adjuvants in micro€to nanoscale: current state and future direction. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 61-84.	6.1	11
66	Interaction of gold nanoparticles and nickel(II) sulfate affects dendritic cell maturation. Nanotoxicology, 2016, 10, 1395-1403.	3.0	16
67	Synthetic virus-like particles prepared via protein corona formation enable effective vaccination in an avian model of coronavirus infection. Biomaterials, 2016, 106, 111-118.	11.4	74
68	Nanomaterial-based vaccine adjuvants. Journal of Materials Chemistry B, 2016, 4, 5496-5509.	5.8	96
69	Albumin-Bioinspired Gd:CuS Nanotheranostic Agent for <i>In Vivo</i> Photoacoustic/Magnetic Resonance Imaging-Guided Tumor-Targeted Photothermal Therapy. ACS Nano, 2016, 10, 10245-10257.	14.6	361
70	Engineered gold nanoparticles for photothermal cancer therapy and bacteria killing. RSC Advances, 2016, 6, 111482-111516.	3.6	62
71	Enhancing dendritic cell activation and HIV vaccine effectiveness through nanoparticle vaccination. Expert Review of Vaccines, 2016, 15, 719-729.	4.4	30
72	The effect of mucoadhesive excipient on the nasal retention time of and the antibody responses induced by an intranasal influenza vaccine. Vaccine, 2016, 34, 1201-1207.	3.8	25
73	Different-Sized Gold Nanoparticle Activator/Antigen Increases Dendritic Cells Accumulation in Liver-Draining Lymph Nodes and CD8 ⁺ T Cell Responses. ACS Nano, 2016, 10, 2678-2692.	14.6	109

#	ARTICLE	IF	CITATIONS
74	Optimization of physiological properties of hydroxyapatite as a vaccine adjuvant. <i>Vaccine</i> , 2016, 34, 306-312.	3.8	26
75	Nanoparticle transport across the placental barrier: pushing the field forward!. <i>Nanomedicine</i> , 2016, 11, 941-957.	3.3	101
76	The effect of nanoparticle size on <i>in vivo</i> pharmacokinetics and cellular interaction. <i>Nanomedicine</i> , 2016, 11, 673-692.	3.3	1,197
77	Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 129-137.	9.4	87
78	Enhanced non-inflammasome mediated immune responses by mannosylated zwitterionic-based cationic liposomes for HIV DNA vaccines. <i>Biomaterials</i> , 2016, 85, 1-17.	11.4	68
79	Materials design at the interface of nanoparticles and innate immunity. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1610-1618.	5.8	69
80	Shape-Dependent Activation of Cytokine Secretion by Polymer Capsules in Human Monocyte-Derived Macrophages. <i>Biomacromolecules</i> , 2016, 17, 1205-1212.	5.4	49
81	Gold nanoparticle size and shape influence on osteogenesis of mesenchymal stem cells. <i>Nanoscale</i> , 2016, 8, 7992-8007.	5.6	193
82	Peptide-based synthetic vaccines. <i>Chemical Science</i> , 2016, 7, 842-854.	7.4	450
83	Particulate delivery systems for vaccination against bioterrorism agents and emerging infectious pathogens. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1403.	6.1	34
84	Tailoring polymeric hybrid micelles with lymph node targeting ability to improve the potency of cancer vaccines. <i>Biomaterials</i> , 2017, 122, 105-113.	11.4	107
85	Self-assembled PEG-PDPA-PGEM copolymer nanoparticles as protein antigen delivery vehicles to dendritic cells: preparation, characterization and cellular uptake. <i>International Journal of Energy Production and Management</i> , 2017, 4, 11-20.	3.7	17
86	Immunological Principles Guiding the Rational Design of Particles for Vaccine Delivery. <i>ACS Nano</i> , 2017, 11, 54-68.	14.6	153
87	Effect of halloysite nanotubes on the structure and function of important multiple blood components. <i>Materials Science and Engineering C</i> , 2017, 75, 72-78.	7.3	23
88	Metal NPs (Au, Ag, and Cu): Synthesis, Stabilization, and Their Role in Green Chemistry and Drug Delivery. , 2017, , 309-337.		13
89	Nanotechnology based therapeutic modality to boost anti-tumor immunity and collapse tumor defense. <i>Journal of Controlled Release</i> , 2017, 256, 26-45.	9.9	41
90	Effects of gold nanoparticle-based vaccine size on lymph node delivery and cytotoxic T-lymphocyte responses. <i>Journal of Controlled Release</i> , 2017, 256, 56-67.	9.9	114
91	Intracellular accumulation and immunological responses of lipid modified magnetic iron nanoparticles in mouse antigen processing cells. <i>Biomaterials Science</i> , 2017, 5, 1603-1611.	5.4	9

#	ARTICLE	IF	CITATIONS
92	Asymmetric Silica Nanoparticles with Tunable Head-Tail Structures Enhance Hemocompatibility and Maturation of Immune Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 6321-6328.	13.7	105
93	Immunological properties of gold nanoparticles. <i>Chemical Science</i> , 2017, 8, 1719-1735.	7.4	179
94	Designing biomaterials with immunomodulatory properties for tissue engineering and regenerative medicine. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 139-155.	7.1	154
95	Aluminum (Oxy)Hydroxide Nanosticks Synthesized in Bicontinuous Reverse Microemulsion Have Potent Vaccine Adjuvant Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22893-22901.	8.0	37
96	Progress in rigid polysaccharide-based nanocomposites with therapeutic functions. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5690-5713.	5.8	56
97	The influence of tumor-induced immune dysfunction on the immune cell distribution of gold nanoparticles in vivo. <i>Biomaterials Science</i> , 2017, 5, 1531-1536.	5.4	12
98	Tailoring Biomaterials for Cancer Immunotherapy: Emerging Trends and Future Outlook. <i>Advanced Materials</i> , 2017, 29, 1606036.	21.0	220
99	Understanding the Effect of Surface Chemistry of Mesoporous Silica Nanorods on Their Vaccine Adjuvant Potency. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700466.	7.6	36
100	Green Technologies and Environmental Sustainability. , 2017, , .		24
101	Nanoparticles for tumor immunotherapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 115, 243-256.	4.3	92
102	Insight into the interactions between nanoparticles and cells. <i>Biomaterials Science</i> , 2017, 5, 173-189.	5.4	78
103	Facile fabrication of varisized calcium carbonate microspheres as vaccine adjuvants. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1611-1623.	5.8	41
104	Electrically Oscillating Plasmonic Nanoparticles for Enhanced DNA Vaccination against Hepatitis C Virus. <i>Advanced Functional Materials</i> , 2017, 27, 1604139.	14.9	25
105	Formation of Polymeric Nanocubes by Self-Assembly and Crystallization of Dithiolane-Containing Triblock Copolymers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16357-16362.	13.8	29
106	Facile green synthesis of nanomagnets for modulating magnetohyperthermia: tailoring size, shape and phase. <i>RSC Advances</i> , 2017, 7, 47669-47680.	3.6	9
107	Nanotechnology-Based Immunotherapeutic Strategies for the Treatment of Cancer. , 2017, , 83-115.		1
108	Multi-functional thermo-crosslinkable collagen-metal nanoparticle composites for tissue regeneration: nanosilver vs. nanogold. <i>RSC Advances</i> , 2017, 7, 47704-47708.	3.6	45
109	Form Follows Function: Nanoparticle Shape and Its Implications for Nanomedicine. <i>Chemical Reviews</i> , 2017, 117, 11476-11521.	47.7	464

#	ARTICLE	IF	CITATIONS
110	Design of Multivalent Inhibitors for Preventing Cellular Uptake. <i>Scientific Reports</i> , 2017, 7, 11689.	3.3	9
111	The effect of particle shape on cellular interaction and drug delivery applications of micro- and nanoparticles. <i>International Journal of Pharmaceutics</i> , 2017, 532, 450-465.	5.2	147
112	Targeting dendritic cells through gold nanoparticles: A review on the cellular uptake and subsequent immunological properties. <i>Molecular Immunology</i> , 2017, 91, 123-133.	2.2	70
113	Engineering biodegradable guanidyl-decorated PEG-PCL nanoparticles as robust exogenous activators of DCs and antigen cross-presentation. <i>Nanoscale</i> , 2017, 9, 13413-13418.	5.6	24
114	A Comparative Study of Clinical Intervention and Interventional Photothermal Therapy for Pancreatic Cancer. <i>Advanced Materials</i> , 2017, 29, 1700448.	21.0	86
115	Polyhedral gold nanocrystals/polyelectrolyte composite film: One-pot synthesis via interfacial liquid plasma polymerization. <i>Composites Science and Technology</i> , 2017, 153, 198-208.	7.8	2
116	Formation of Polymeric Nanocubes by Self-Assembly and Crystallization of Dithiolane-Containing Triblock Copolymers. <i>Angewandte Chemie</i> , 2017, 129, 16575-16580.	2.0	7
117	Harnessing designed nanoparticles: Current strategies and future perspectives in cancer immunotherapy. <i>Nano Today</i> , 2017, 17, 23-37.	11.9	69
118	Structural Characterization of Biofunctionalized Gold Nanoparticles by Ultrahigh-Resolution Mass Spectrometry. <i>ACS Nano</i> , 2017, 11, 8257-8264.	14.6	45
119	Intranasal Administration of Whole Inactivated Influenza Virus Vaccine as a Promising Influenza Vaccine Candidate. <i>Viral Immunology</i> , 2017, 30, 451-462.	1.3	33
120	Size-dependent electronic properties of nanomaterials: How this novel class of nanodescriptors supposed to be calculated?. <i>Structural Chemistry</i> , 2017, 28, 635-643.	2.0	36
121	Biomaterials-Based Vaccination Strategies for the Induction of CD8 ⁺ T Cell Responses. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 126-143.	5.2	20
122	Breaking Down the Barriers to Precision Cancer Nanomedicine. <i>Trends in Biotechnology</i> , 2017, 35, 159-171.	9.3	254
123	Impact of dose, route, and composition on the immunogenicity of immune polyelectrolyte multilayers delivered on gold templates. <i>Biotechnology and Bioengineering</i> , 2017, 114, 423-431.	3.3	21
125	A growing world of small things: a brief review on the nanostructured vaccines. <i>Future Virology</i> , 2017, 12, 767-779.	1.8	8
126	Dual-linker gold nanoparticles as adjuvanting carriers for multivalent display of recombinant influenza hemagglutinin trimers and flagellin improve the immunological responses in vivo and in vitro. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 4747-4762.	6.7	41
127	Glyco-gold nanoparticles: synthesis and applications. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1008-1021.	2.2	73
128	Applications of Gold Nanoparticles in Nanomedicine: Recent Advances in Vaccines. <i>Molecules</i> , 2017, 22, 857.	3.8	95

#	ARTICLE	IF	CITATIONS
129	Harnessing Nanoparticles for Immunomodulation and Vaccines. <i>Vaccines</i> , 2017, 5, 6.	4.4	113
130	Nanovaccines for oral delivery-formulation strategies and challenges. , 2017, , 263-293.		22
131	Role of Metallic Nanoparticles in Vaccinology: Implications for Infectious Disease Vaccine Development. <i>Frontiers in Immunology</i> , 2017, 8, 239.	4.8	89
132	The Role of Inflammasomes in Adjuvant-Driven Humoral and Cellular Immune Responses. , 2017, , 23-42.		2
133	Design of nanoparticle structures for cancer immunotherapy. , 2017, , 307-328.		1
134	Gold nanoparticles enhance TRAIL sensitivity through Drp1-mediated apoptotic and autophagic mitochondrial fission in NSCLC cells. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2531-2551.	6.7	66
135	Nanoparticle Vaccines Adopting Virus-like Features for Enhanced Immune Potentiation. <i>Nanotheranostics</i> , 2017, 1, 244-260.	5.2	102
136	Nanoparticulate carrier(s): an emerging paradigm in new generation vaccine development. , 2017, , 523-550.		2
137	Nanoparticle orientationally displayed antigen epitopes
improve neutralizing antibody level in a model of porcine circovirus type 2. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 5239-5254.	6.7	19
138	Aminated nanomicelles as a designer vaccine adjuvant to trigger inflammasomes and multiple arms of the innate immune response in lymph nodes. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 7501-7517.	6.7	8
139	Achieving Superosseointegration: The Photofunctionalization Effect. <i>Dentistry (Sunnyvale, Calif)</i> , 2017, 07, .	0.1	0
140	Advances and Opportunities in Nanoparticle&and Nanomaterial&Based Vaccines against Bacterial Infections. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701395.	7.6	74
141	Nanomaterial exposure, toxicity, and impact on human health. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1513.	6.1	146
142	Peptide and protein nanoparticle conjugates: versatile platforms for biomedical applications. <i>Chemical Society Reviews</i> , 2018, 47, 3574-3620.	38.1	352
143	Homogeneous Plasmonic Au Nanoparticles Fabrication Using In Situ Substrate Heating by Sputtering. <i>Plasmonics</i> , 2018, 13, 2175-2182.	3.4	5
144	Trends in Insect Molecular Biology and Biotechnology. , 2018, , .		10
145	Immunostimulation and Immunosuppression: Nanotechnology on the Brink. <i>Small Methods</i> , 2018, 2, 1700347.	8.6	32
146	MAPLE fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. <i>Applied Surface Science</i> , 2018, 448, 230-236.	6.1	15

#	ARTICLE	IF	CITATIONS
147	Gold nanoparticles conjugating recombinant influenza hemagglutinin trimers and flagellin enhanced mucosal cellular immunity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1349-1360.	3.3	66
148	The use of gold nanorods as a new vaccine platform against schistosomiasis. <i>Journal of Controlled Release</i> , 2018, 275, 40-52.	9.9	23
149	Asymmetric mesoporous silica nanoparticles as potent and safe immunoadjuvants provoke high immune responses. <i>Chemical Communications</i> , 2018, 54, 2020-2023.	4.1	41
150	Entry of nanoparticles into cells: the importance of nanoparticle properties. <i>Polymer Chemistry</i> , 2018, 9, 259-272.	3.9	294
151	Nanotechnology and Its Impact on Insects in Agriculture. , 2018, , 353-378.		2
152	Effects of Nanoprobe Morphology on Cellular Binding and Inflammatory Responses: Hyaluronan-Conjugated Magnetic Nanoworms for Magnetic Resonance Imaging of Atherosclerotic Plaques. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11495-11507.	8.0	29
153	Near-Infrared-Light-Activatable Nanomaterial-Mediated Phototheranostic Nanomedicines: An Emerging Paradigm for Cancer Treatment. <i>Advanced Materials</i> , 2018, 30, e1706320.	21.0	414
154	Nanoparticles for dendritic cell-based immunotherapy. <i>International Journal of Pharmaceutics</i> , 2018, 542, 253-265.	5.2	61
155	Applications and perspectives of nanomaterials in novel vaccine development. <i>MedChemComm</i> , 2018, 9, 226-238.	3.4	57
156	Improving Vaccine and Immunotherapy Design Using Biomaterials. <i>Trends in Immunology</i> , 2018, 39, 135-150.	6.8	152
157	Metallic nanoparticles for cancer immunotherapy. <i>Materials Today</i> , 2018, 21, 673-685.	14.2	164
158	A priming dose protects against gold nanoparticles-induced proinflammatory cytokines mRNA expression in mice. <i>Nanomedicine</i> , 2018, 13, 313-323.	3.3	14
159	Co-delivery of human cancer-testis antigens with adjuvant in protein nanoparticles induces higher cell-mediated immune responses. <i>Biomaterials</i> , 2018, 156, 194-203.	11.4	48
160	Gold nanoparticles as an adjuvant: Influence of size, shape, and technique of combination with CpG on antibody production. <i>International Immunopharmacology</i> , 2018, 54, 163-168.	3.8	57
161	Clay Nanoparticles Elicit Long-Term Immune Responses by Forming Biodegradable Depots for Sustained Antigen Stimulation. <i>Small</i> , 2018, 14, e1704465.	10.0	53
162	New Strategies to Improve Therapeutic Vaccines. , 0, , .		1
163	2. Nanotoxicity and the immune system. , 2018, , 43-80.		0
164	DNA Vaccines—How Far From Clinical Use?. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3605.	4.1	329

#	ARTICLE	IF	CITATIONS
165	A Perspective on Nanoparticle Universal Influenza Vaccines. <i>ACS Infectious Diseases</i> , 2018, 4, 1656-1665.	3.8	29
166	Robust mucosal and systemic responses against HTLV-1 by delivery of multi-epitope vaccine in PLGA nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 321-330.	4.3	29
167	EspA-loaded mesoporous silica nanoparticles can efficiently protect animal model against enterohaemorrhagic <i>E. coli</i> O157: H7. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1067-1075.	2.8	20
168	Golden-star nanoparticles as adjuvant effectively promotes immune response to foot-and-mouth disease virus-like particles vaccine. <i>Vaccine</i> , 2018, 36, 6752-6760.	3.8	28
169	Nanoparticle Vaccines Against Infectious Diseases. <i>Frontiers in Immunology</i> , 2018, 9, 2224.	4.8	347
170	Nanoparticles for Immune Stimulation Against Infection, Cancer, and Autoimmunity. <i>ACS Nano</i> , 2018, 12, 10621-10635.	14.6	79
171	Biodegradable Polymeric Nanocarrier-Based Immunotherapy in Hepatitis Vaccination. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1078, 303-320.	1.6	7
172	Collagen-ZnO Scaffolds for Wound Healing Applications: Role of Dendrimer Functionalization and Nanoparticle Morphology. <i>ACS Applied Bio Materials</i> , 2018, 1, 1942-1958.	4.6	27
173	Interactions Between Nanoparticles and Dendritic Cells: From the Perspective of Cancer Immunotherapy. <i>Frontiers in Oncology</i> , 2018, 8, 404.	2.8	113
174	Glutathione-depletion mesoporous organosilica nanoparticles as a self-adjuvant and Co-delivery platform for enhanced cancer immunotherapy. <i>Biomaterials</i> , 2018, 175, 82-92.	11.4	135
175	Shape-dependent adjuvanticity of nanoparticle-conjugated RNA adjuvants for intranasal inactivated influenza vaccines. <i>RSC Advances</i> , 2018, 8, 16527-16536.	3.6	26
176	Specific T cell induction using iron oxide based nanoparticles as subunit vaccine adjuvant. <i>Human Vaccines and Immunotherapeutics</i> , 2018, 14, 1-16.	3.3	26
177	Microneedle arrays for vaccine delivery: the possibilities, challenges and use of nanoparticles as a combinatorial approach for enhanced vaccine immunogenicity. <i>Expert Opinion on Drug Delivery</i> , 2018, 15, 851-867.	5.0	37
178	Transient DNA damage following exposure to gold nanoparticles. <i>Nanoscale</i> , 2018, 10, 15723-15735.	5.6	44
179	Tannic Acid-Modified Silver and Gold Nanoparticles as Novel Stimulators of Dendritic Cells Activation. <i>Frontiers in Immunology</i> , 2018, 9, 1115.	4.8	32
180	Strategies on Nanodiagnostics and Nanotherapies of the Three Common Cancers. <i>Nanomaterials</i> , 2018, 8, 202.	4.1	23
181	Design of Gold Nanoparticles in Dendritic Cell-Based Vaccines. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800109.	2.3	13
182	The impact of photofunctionalized gold nanoparticles on osseointegration. <i>Heliyon</i> , 2018, 4, e00662.	3.2	7

#	ARTICLE	IF	CITATIONS
183	Size-dependent neutralizing activity of gold nanoparticle-based subunit vaccine against dengue virus. <i>Acta Biomaterialia</i> , 2018, 78, 224-235.	8.3	43
184	Influences of nanocarrier morphology on therapeutic immunomodulation. <i>Nanomedicine</i> , 2018, 13, 1795-1811.	3.3	33
185	Intestinal injury alters tissue distribution and toxicity of ZnO nanoparticles in mice. <i>Toxicology Letters</i> , 2018, 295, 74-85.	0.8	27
186	Smaller CpG-Conjugated Gold Nanoconstructs Achieve Higher Targeting Specificity of Immune Activation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21920-21926.	8.0	54
187	Advances in Biomaterials for Drug Delivery. <i>Advanced Materials</i> , 2018, 30, e1705328.	21.0	565
188	Self-Assembly of Rod-Like Bionanoparticles at Interfaces and in Solution. <i>Methods in Molecular Biology</i> , 2018, 1776, 159-167.	0.9	0
189	Tailoring inorganic nanoadjuvants towards next-generation vaccines. <i>Chemical Society Reviews</i> , 2018, 47, 4954-4980.	38.1	95
190	Nanomaterials as photothermal therapeutic agents. <i>Progress in Materials Science</i> , 2019, 99, 1-26.	32.8	442
191	Fabrication of innocuous gold nanoparticles using plant cells in culture. <i>Scientific Reports</i> , 2019, 9, 12040.	3.3	11
192	Surface-modified nanocrystalline cellulose from oil palm empty fruit bunch for effective binding of curcumin. <i>International Journal of Biological Macromolecules</i> , 2019, 138, 1064-1071.	7.5	40
193	Simultaneous Retrieval of PWV and VTEC by Low-Cost Multi-GNSS Single-Frequency Receivers. <i>Earth and Space Science</i> , 2019, 6, 1694-1709.	2.6	12
194	Physical and chemical profiles of nanoparticles for lymphatic targeting. <i>Advanced Drug Delivery Reviews</i> , 2019, 151-152, 72-93.	13.7	79
195	Advances in Lipid and Metal Nanoparticles for Antimicrobial Peptide Delivery. <i>Pharmaceutics</i> , 2019, 11, 588.	4.5	81
196	Recent advances and challenges of repurposing nanoparticle-based drug delivery systems to enhance cancer immunotherapy. <i>Theranostics</i> , 2019, 9, 7906-7923.	10.0	100
197	Anisotropic nanomaterials for shape-dependent physicochemical and biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 5140-5176.	38.1	150
198	Potential applications of nanoparticles for tumor microenvironment remodeling to ameliorate cancer immunotherapy. <i>International Journal of Pharmaceutics</i> , 2019, 570, 118636.	5.2	24
199	Domesticating the foreign body response: Recent advances and applications. <i>Advanced Drug Delivery Reviews</i> , 2019, 144, 148-161.	13.7	126
200	Nanoparticle Size Influences Antigen Retention and Presentation in Lymph Node Follicles for Humoral Immunity. <i>Nano Letters</i> , 2019, 19, 7226-7235.	9.1	140

#	ARTICLE	IF	CITATIONS
201	Polyelectrolyte-Based Platforms for the Delivery of Peptides and Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4937-4950.	5.2	59
202	The clinical pharmacokinetics impact of medical nanometals on drug delivery system. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 47-61.	3.3	28
203	Exploring the interactions between engineered nanomaterials and immune cells at 3D nano-bio interfaces to discover potent nano-adjuvants. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102037.	3.3	11
204	A versatile supramolecular nanoadjuvant that activates NF- κ B for cancer immunotherapy. <i>Theranostics</i> , 2019, 9, 3388-3397.	10.0	27
205	Designing inorganic nanomaterials for vaccines and immunotherapies. <i>Nano Today</i> , 2019, 27, 73-98.	11.9	102
206	<p>Internalization and effects on cellular ultrastructure of nickel nanoparticles in rat kidneys</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3995-4005.	6.7	14
207	Shape of ligand immobilized particles dominates and amplifies the macrophage cytokine response to ligands. <i>PLoS ONE</i> , 2019, 14, e0217022.	2.5	19
208	Role of dendritic cells in the host response to biomaterials and their signaling pathways. <i>Acta Biomaterialia</i> , 2019, 94, 132-144.	8.3	37
209	Concepts of nanoparticle cellular uptake, intracellular trafficking, and kinetics in nanomedicine. <i>Advanced Drug Delivery Reviews</i> , 2019, 143, 68-96.	13.7	561
210	Nanoparticles Advancing Cancer Immunotherapy. , 2019, , 283-304.		1
211	Ferrimagnetic Nanochainsâ€Based Mesenchymal Stem Cell Engineering for Highly Efficient Postâ€Stroke Recovery. <i>Advanced Functional Materials</i> , 2019, 29, 1900603.	14.9	59
212	Overcoming the Bloodâ€Brain Barrier. Challenges and Tricks for CNS Drug Delivery. <i>Scientia Pharmaceutica</i> , 2019, 87, 6.	2.0	117
213	Nanoparticleâ€Based Nanomedicines to Promote Cancer Immunotherapy: Recent Advances and Future Directions. <i>Small</i> , 2019, 15, e1900262.	10.0	100
214	Anti-inflammatory actions of folate-functionalized bioactive ion-releasing nanoparticles imply drug-free nanotherapy of inflamed tissues. <i>Biomaterials</i> , 2019, 207, 23-38.	11.4	50
215	Novel approaches for the design, delivery and administration of vaccine technologies. <i>Clinical and Experimental Immunology</i> , 2019, 196, 189-204.	2.6	82
216	Mechanism of Iron Oxide-Induced Macrophage Activation: The Impact of Composition and the Underlying Signaling Pathway. <i>Journal of the American Chemical Society</i> , 2019, 141, 6122-6126.	13.7	126
217	Biomaterials: Foreign Bodies or Tuners for the Immune Response?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 636.	4.1	426
218	A comparison between adjuvant and delivering functions of calcium phosphate, aluminum hydroxide and chitosan nanoparticles, using a model protein of <i>Brucella melitensis</i> Omp31. <i>Immunology Letters</i> , 2019, 207, 28-35.	2.5	25

#	ARTICLE	IF	CITATIONS
219	Nanoparticle systems for cancer vaccine. <i>Nanomedicine</i> , 2019, 14, 627-648.	3.3	85
220	Nanosystems for drug delivery: Design, engineering, and applications. , 2019, , 321-345.		6
221	Chitosan Acetylation Degree Influences the Physical Properties of Polysaccharide Nanoparticles: Implication for the Innate Immune Cells Response. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9794-9803.	8.0	43
222	Nucleic acid medicines as green novel anticancer drugs. , 2019, , 131-149.		1
223	Nanomaterials for Regenerative Medicine. <i>Pancreatic Islet Biology</i> , 2019, , .	0.3	1
224	Biophysical restriction of growth area using a monodispersed gold sphere nanobarrier prolongs the mitotic phase in HeLa cells. <i>RSC Advances</i> , 2019, 9, 37497-37506.	3.6	1
225	Facile fabrication of polydopamine nanotubes for combined chemo-photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6828-6839.	5.8	33
226	Thermal annealing induced formation of polymeric nanopillars of asymmetric bottlebrush block copolymers. <i>Polymer</i> , 2019, 185, 121983.	3.8	0
227	Engineering Nanoparticles for Targeted Remodeling of the Tumor Microenvironment to Improve Cancer Immunotherapy. <i>Theranostics</i> , 2019, 9, 126-151.	10.0	128
228	Engineering Immune Tolerance with Biomaterials. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801419.	7.6	49
229	Versatile Types of Organic/Inorganic Nanohybrids: From Strategic Design to Biomedical Applications. <i>Chemical Reviews</i> , 2019, 119, 1666-1762.	47.7	299
230	Size controllable one step synthesis of gold nanoparticles using carboxymethyl chitosan. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 770-783.	7.5	27
231	Gold Nanoparticles in Cancer Treatment. <i>Molecular Pharmaceutics</i> , 2019, 16, 1-23.	4.6	371
232	Nanoparticles applied to cancer immunoregulation. <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 47-55.	0.6	20
233	Synthesis of Patient-Specific Nanomaterials. <i>Nano Letters</i> , 2019, 19, 116-123.	9.1	40
234	In Vivo Study of Spiky Fe ₃ O ₄ @Au Nanoparticles with Different Branch Lengths: Biodistribution, Clearance, and Biocompatibility in Mice. <i>ACS Applied Bio Materials</i> , 2019, 2, 163-170.	4.6	9
235	Protein-based nanoparticles in cancer vaccine development. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 15, 164-174.	3.3	127
236	Activation of Human Monocytes by Colloidal Aluminum Salts. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 750-760.	3.3	8

#	ARTICLE	IF	CITATIONS
237	Lipopeptide-Based Oral Vaccine Against Hookworm Infection. <i>Journal of Infectious Diseases</i> , 2020, 221, 934-942.	4.0	36
238	Materials for Immunotherapy. <i>Advanced Materials</i> , 2020, 32, e1901633.	21.0	132
240	Nanotechnology platforms for cancer immunotherapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1590.	6.1	82
241	Gold nanoparticle-Adjuvanted S protein induces a strong antigen-specific IgG response against severe acute respiratory syndrome-related coronavirus infection, but fails to induce protective antibodies and limit eosinophilic infiltration in lungs. <i>Microbiology and Immunology</i> , 2020, 64, 33-51.	1.4	140
242	Comparative studies on the structural composition, surface/interface activity and application potential of rhamnolipids produced by <i>Pseudomonas aeruginosa</i> using hydrophobic or hydrophilic substrates. <i>Bioresource Technology</i> , 2020, 295, 122269.	9.6	41
243	Development of nano-carriers for <i>Leishmania</i> vaccine delivery. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 167-187.	5.0	14
244	Recent Advances in Particulate Adjuvants for Cancer Vaccination. <i>Advanced Therapeutics</i> , 2020, 3, 1900115.	3.2	15
245	Nanoparticles and Vaccine Development. <i>Pharmaceutical Nanotechnology</i> , 2020, 8, 6-21.	1.5	100
246	Nanometals in Dentistry: Applications and Toxicological Implications—a Systematic Review. <i>Biological Trace Element Research</i> , 2020, 197, 70-88.	3.5	43
247	Inflammasome-Mediated Immunogenicity of Clinical and Experimental Vaccine Adjuvants. <i>Vaccines</i> , 2020, 8, 554.	4.4	34
248	Antiviral nanoagents: More attention and effort needed?. <i>Nano Today</i> , 2020, 35, 100976.	11.9	23
249	Understanding the influence of experimental factors on bio-interactions of nanoparticles: Towards improving correlation between in vitro and in vivo studies. <i>Archives of Biochemistry and Biophysics</i> , 2020, 694, 108592.	3.0	13
250	Engineering nanoparticles to overcome immunological barriers for enhanced drug delivery. <i>Engineered Regeneration</i> , 2020, 1, 35-50.	6.0	35
251	Polymeric Nanoparticle-Based Vaccine Adjuvants and Delivery Vehicles. <i>Current Topics in Microbiology and Immunology</i> , 2020, 433, 29-76.	1.1	12
252	Synthesis, Properties, and Biological Applications of Metallic Alloy Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5174.	4.1	113
253	New Insights into Biocompatible Iron Oxide Nanoparticles: A Potential Booster of Gene Delivery to Stem Cells. <i>Small</i> , 2020, 16, e2001588.	10.0	33
254	Proton-driven transformable nanovaccine for cancer immunotherapy. <i>Nature Nanotechnology</i> , 2020, 15, 1053-1064.	31.5	194
255	Therapeutic Vaccines for Cancer Immunotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6036-6052.	5.2	24

#	ARTICLE	IF	CITATIONS
256	Nanoparticle-Based Strategies to Combat COVID-19. ACS Applied Nano Materials, 2020, 3, 8557-8580.	5.0	151
257	Nucleic Acid-Based Approaches for Tumor Therapy. Cells, 2020, 9, 2061.	4.1	40
258	Nanoparticles as Smart Carriers for Enhanced Cancer Immunotherapy. Frontiers in Chemistry, 2020, 8, 597806.	3.6	55
259	Addressing Nanomaterial Immunosafety by Evaluating Innate Immunity across Living Species. Small, 2020, 16, e2000598.	10.0	35
260	Dc-specific aptamer decorated gold nanoparticles: A new attractive insight into the nanocarriers for allergy epicutaneous immunotherapy. International Journal of Pharmaceutics, 2020, 584, 119403.	5.2	20
261	Organic/inorganic nanocomposites for cancer immunotherapy. Materials Chemistry Frontiers, 2020, 4, 2571-2609.	5.9	38
262	Nanotechnology for COVID-19: Therapeutics and Vaccine Research. ACS Nano, 2020, 14, 7760-7782.	14.6	289
263	Gold nanospheres and nanorods for anti-cancer therapy: comparative studies of fabrication, surface-decoration, and anti-cancer treatments. Nanoscale, 2020, 12, 14996-15020.	5.6	37
264	Nanomaterials for oncotherapies targeting the hallmarks of cancer. Nanotechnology, 2020, 31, 392001.	2.6	11
265	Immune cell engineering: opportunities in lung cancer therapeutics. Drug Delivery and Translational Research, 2020, 10, 1203-1227.	5.8	3
266	Biomaterial-based strategies to prime dendritic cell-mediated anti-cancer immune responses. International Materials Reviews, 2020, 65, 445-462.	19.3	16
267	Green Synthesis of Gold Nanoparticles Capped with Procyanidins from Leucosidea sericea as Potential Antidiabetic and Antioxidant Agents. Biomolecules, 2020, 10, 452.	4.0	65
268	Organic and inorganic nanoparticle vaccines for prevention of infectious diseases. Nano Express, 2020, 1, 012001.	2.4	50
269	Gold Nanoparticles in Glioma Theranostics. Pharmacological Research, 2020, 156, 104753.	7.1	48
270	Toxicity of alumina nanoparticles in the immune system of mice. Nanomedicine, 2020, 15, 927-946.	3.3	23
271	Recent Advances of Gold Compounds in Anticancer Immunity. Frontiers in Chemistry, 2020, 8, 543.	3.6	54
272	Impact of biomaterials' physical properties on cellular and molecular responses. , 2020, , 69-84.		1
273	Glyconanoparticles as versatile platforms for vaccine development: A minireview. , 2020, , 381-411.		1

#	ARTICLE	IF	CITATIONS
274	Effects of Nanoparticles on Viral Infection – A Review. <i>Nano</i> , 2020, 15, 2030003.	1.0	5
275	Nanoparticle formulated vaccines: opportunities and challenges. <i>Nanoscale</i> , 2020, 12, 5746-5763.	5.6	69
276	Cell-Penetrating Nanoparticles Activate the Inflammasome to Enhance Antibody Production by Targeting Microtubule-Associated Protein 1-Light Chain 3 for Degradation. <i>ACS Nano</i> , 2020, 14, 3703-3717.	14.6	55
277	Engineering ApoE3-incorporated biomimetic nanoparticle for efficient vaccine delivery to dendritic cells via macropinocytosis to enhance cancer immunotherapy. <i>Biomaterials</i> , 2020, 235, 119795.	11.4	65
278	Surface chemistry of gold nanoparticles for health-related applications. <i>Chemical Science</i> , 2020, 11, 923-936.	7.4	191
279	One Peptide for Them All: Gold Nanoparticles of Different Sizes Are Stabilized by a Common Peptide Amphiphile. <i>ACS Nano</i> , 2020, 14, 5874-5886.	14.6	47
280	Microbe-Mediated Extracellular and Intracellular Mineralization: Environmental, Industrial, and Biotechnological Applications. <i>Advanced Materials</i> , 2020, 32, e1907833.	21.0	91
281	Advancements in prophylactic and therapeutic nanovaccines. <i>Acta Biomaterialia</i> , 2020, 108, 1-21.	8.3	92
282	Macrophage M1/M2 polarization. <i>European Journal of Pharmacology</i> , 2020, 877, 173090.	3.5	883
283	Gold nanoparticles morphology does not affect the multivalent presentation and antibody recognition of Group A <i>Streptococcus</i> synthetic oligorhamnans. <i>Bioorganic Chemistry</i> , 2020, 99, 103815.	4.1	24
284	Gold nanoparticles for preparation of antibodies and vaccines against infectious diseases. <i>Expert Review of Vaccines</i> , 2020, 19, 465-477.	4.4	78
285	Engineering Nanoparticles toward the Modulation of Emerging Cancer Immunotherapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000845.	7.6	33
286	Nanomedicines inhibiting tumor metastasis and recurrence and their clinical applications. <i>Nano Today</i> , 2021, 36, 101004.	11.9	56
287	Nano-based approaches in the development of antiviral agents and vaccines. <i>Life Sciences</i> , 2021, 265, 118761.	4.3	20
288	Bio-membrane adhesive poly(choline phosphate l-glutamate)-based nanoparticles as vaccine delivery systems for cancer immunotherapy. <i>Chemical Engineering Journal</i> , 2021, 417, 127970.	12.7	7
289	Inducing immune tolerance with dendritic cell-targeting nanomedicines. <i>Nature Nanotechnology</i> , 2021, 16, 37-46.	31.5	129
290	Considerations for Size, Surface Charge, Polymer Degradation, Co-Delivery, and Manufacturability in the Development of Polymeric Particle Vaccines for Infectious Diseases. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000041.	3.6	37
291	Immunogenicity of gold nanoparticle-based truncated ORF2 vaccine in mice against Hepatitis E virus. <i>3 Biotech</i> , 2021, 11, 49.	2.2	6

#	ARTICLE	IF	CITATIONS
292	Ayurvedic metal nanoparticles could be novel antiviral agents against SARS-CoV-2. <i>International Nano Letters</i> , 2021, 11, 197-203.	5.0	32
293	Polysaccharide-based nanocomposites for gene delivery and tissue engineering. , 2021, , 103-129.		4
294	A nano perspective behind the COVID-19 pandemic. <i>Nanoscale Horizons</i> , 2021, 6, 842-855.	8.0	1
295	Recent Advancement in Nanotechnology-Based Drug Delivery System Against Viral Infections. <i>AAPS PharmSciTech</i> , 2021, 22, 47.	3.3	31
296	Engineering Vaccines for Tissueâ€Resident Memory T Cells. <i>Advanced Therapeutics</i> , 2021, 4, 2000230.	3.2	13
297	Chitosan Nanoparticles Loaded with Truncated ORF2 Protein as an Oral Vaccine Candidate against Hepatitis E. <i>Macromolecular Bioscience</i> , 2021, 21, e2000375.	4.1	9
298	Preparation, Functionalization, Modification, and Applications of Nanostructured Gold: A Critical Review. <i>Energies</i> , 2021, 14, 1278.	3.1	42
299	Gold nanoparticle-based platforms for vaccine development. <i>Drug Discovery Today: Technologies</i> , 2020, 38, 57-67.	4.0	46
300	Pollen-Mimetic Metalâ€Organic Frameworks with Tunable Spike-Like Nanostructures That Promote Cell Interactions to Improve Antigen-Specific Humoral Immunity. <i>ACS Nano</i> , 2021, 15, 7596-7607.	14.6	17
301	Nonspherical Metalâ€Based Nanoarchitectures: Synthesis and Impact of Size, Shape, and Composition on Their Biological Activity. <i>Small</i> , 2021, 17, e2007073.	10.0	33
302	Principles of regulating particle multiscale structures for controlling particle-cell interaction process. <i>Chemical Engineering Science</i> , 2021, 232, 116343.	3.8	1
303	Novel approaches for vaccine development. <i>Cell</i> , 2021, 184, 1589-1603.	28.9	145
304	Nanovaccineâ€Based Strategies to Overcome Challenges in the Whole Vaccination Cascade for Tumor Immunotherapy. <i>Small</i> , 2021, 17, e2006000.	10.0	53
305	Gold Nanoclusters Display Low Immunogenic Effect in Microglia Cells. <i>Nanomaterials</i> , 2021, 11, 1066.	4.1	6
306	Bi-functional gold nanocages enhance specific immunological responses of foot-and-mouth disease virus-like particles vaccine as a carrier and adjuvant. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 33, 102358.	3.3	10
307	Iron nanoparticles as novel vaccine adjuvants. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 159, 105718.	4.0	23
308	Effect of physicochemical properties on inÂvivo fate of nanoparticle-based cancer immunotherapies. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 886-902.	12.0	42
309	Influence of Gold Nanoparticles on the Immune Response to Rift Valley Fever Vaccine and Related Hepatophysiological Toxicity, Histological, and Immunohistochemical Alterations. <i>The Egyptian Journal of Pediatric Allergy and Immunology</i> , 2021, 19, 37-49.	0.2	2

#	ARTICLE	IF	CITATIONS
310	Nanotoxoids: Biomimetic Nanoparticle Vaccines against Infections. <i>Advanced Therapeutics</i> , 2021, 4, 2100072.	3.2	10
311	Development of Effective Tumor Vaccine Strategies Based on Immune Response Cascade Reactions. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100299.	7.6	20
312	Chemical Conjugation Strategies for the Development of Protein-Based Subunit Nanovaccines. <i>Vaccines</i> , 2021, 9, 563.	4.4	47
313	Design and application of nanoparticles as vaccine adjuvants against human corona virus infection. <i>Journal of Inorganic Biochemistry</i> , 2021, 219, 111454.	3.5	29
314	Synthesis and immunogenicity assessment of a gold nanoparticle conjugate for the delivery of a peptide from SARS-CoV-2. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102372.	3.3	27
315	Correlating Super-Resolution Microscopy and Transmission Electron Microscopy Reveals Multiparametric Heterogeneity in Nanoparticles. <i>Nano Letters</i> , 2021, 21, 5360-5368.	9.1	23
316	Evidence-based traditional Siddha formulations for prophylaxis and management of respiratory symptoms in COVID-19 pandemic-a review. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 35, 102056.	3.1	12
317	Advances in cancer theranostics using organic-inorganic hybrid nanotechnology. <i>Applied Materials Today</i> , 2021, 23, 101003.	4.3	28
318	Multicomponent Gold-Linked Glycoconjugate Vaccine Elicits Antigen-Specific Humoral and Mixed T _H 1-T _H 17 Immunity, Correlated with Increased Protection against <i>Burkholderia pseudomallei</i> . <i>MBio</i> , 2021, 12, e0122721.	4.1	18
319	Double-edged sword: Therapeutic efficacy versus toxicity evaluations of doped titanium implants. <i>Drug Discovery Today</i> , 2021, 26, 2734-2742.	6.4	28
320	Green synthesis of gold nanoparticles for immune response regulation: Mechanisms, applications, and perspectives. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 424-442.	4.0	22
321	Impact of lipid nanoparticle size on mRNA vaccine immunogenicity. <i>Journal of Controlled Release</i> , 2021, 335, 237-246.	9.9	146
322	Polymer-Functionalized Upconversion Nanoparticles for Light/Imaging-Guided Drug Delivery. <i>Biomacromolecules</i> , 2021, 22, 3168-3201.	5.4	51
323	A self-assembling nanoparticle: Implications for the development of thermostable vaccine candidates. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 2162-2173.	7.5	10
324	Dihydrolipoic acid-coated gold nanocluster bioactivity against senescence and inflammation through the mitochondria-mediated JNK/AP-1 pathway. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 36, 102427.	3.3	4
325	Gold nanorods enhance different immune cells and allow for efficient targeting of CD4 ⁺ Foxp3 ⁺ Tregulatory cells. <i>PLoS ONE</i> , 2021, 16, e0241882.	2.5	3
326	Nanotechnology against COVID-19: Immunization, diagnostic and therapeutic studies. <i>Journal of Controlled Release</i> , 2021, 336, 354-374.	9.9	30
327	Recent advances in regenerative medicine strategies for cancer treatment. <i>Biomedicine and Pharmacotherapy</i> , 2021, 141, 111875.	5.6	38

#	ARTICLE	IF	CITATIONS
328	Role of different types of nanomaterials against diagnosis, prevention and therapy of COVID-19. <i>Sustainable Cities and Society</i> , 2021, 72, 103046.	10.4	25
329	Nanotechnology-empowered vaccine delivery for enhancing CD8+ T cells-mediated cellular immunity. <i>Advanced Drug Delivery Reviews</i> , 2021, 176, 113889.	13.7	48
330	Recent advances in lipopolysaccharide-based glycoconjugate vaccines. <i>Expert Review of Vaccines</i> , 2021, 20, 1515-1538.	4.4	14
332	Targeting immunosuppressor cells with nanoparticles in autoimmunity: How far have we come to?. <i>Cellular Immunology</i> , 2021, 368, 104412.	3.0	4
333	Synergistic enhancement of immunological responses triggered by hyperthermia sensitive Pt NPs via NIR laser to inhibit cancer relapse and metastasis. <i>Bioactive Materials</i> , 2022, 7, 389-400.	15.6	33
334	Nanoparticles as Vaccines to Prevent Arbovirus Infection: A Long Road Ahead. <i>Pathogens</i> , 2021, 10, 36.	2.8	17
335	Emerging Nanomaterials for Cancer Therapy. , 2020, , 25-54.		4
336	Biomaterials-Based Opportunities to Engineer the Pulmonary Host Immune Response in COVID-19. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1742-1764.	5.2	16
337	The sixth revolution in pediatric vaccinology: immunoengineering and delivery systems. <i>Pediatric Research</i> , 2021, 89, 1364-1372.	2.3	17
338	Design, Synthesis, Physicochemical and Immunological Characterization of Dendrimer-HBsAg Conjugate. <i>Vaccine Research</i> , 2014, 1, 24-28.	0.3	5
339	Recent Advances of Plasmonic Gold Nanoparticles in Optical Sensing and Therapy. <i>Current Pharmaceutical Design</i> , 2020, 25, 4861-4876.	1.9	11
340	An Insight into Nanomedicinal Approaches to Combat Viral Zoonoses. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 915-962.	2.1	2
341	Nanotechnologies: A Key Role in Virus Fight. <i>Biomedical Journal of Scientific & Technical Research</i> , 2020, 27, .	0.1	1
342	Gold Nanoparticles (AuNPs): A New Frontier in Vaccine Delivery. <i>Journal of Nanomedicine & Biotherapeutic Discovery</i> , 2015, 05, .	0.6	11
343	Immunotherapy in Cancer Treatment. <i>Open Journal of Medical Microbiology</i> , 2014, 04, 178-191.	0.4	5
344	Two step promotion of a hot tumor immune environment by gold decorated iron oxide nanoflowers and light-triggered mild hyperthermia. <i>Nanoscale</i> , 2021, 13, 18483-18497.	5.6	11
345	The New Frontier in Medicine at the Convergence of Nanotechnology and Immunotherapy. <i>Bioanalysis</i> , 2021, , 3-27.	0.1	0
346	Development of Nanoparticles as a Vaccine Platform. <i>Bioanalysis</i> , 2021, , 223-234.	0.1	0

#	ARTICLE	IF	CITATIONS
347	Association of a vaccine adjuvant with endogenous HDL increases lymph uptake and dendritic cell activation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 172, 240-252.	4.3	2
348	Review: Development of SARS-CoV-2 immuno-enhanced COVID-19 vaccines with nano-platform. <i>Nano Research</i> , 2022, 15, 2196-2225.	10.4	8
349	Functionalized Nanoparticles Targeting Tumor-Associated Macrophages as Cancer Therapy. <i>Pharmaceutics</i> , 2021, 13, 1670.	4.5	28
350	Precisely Shaped Self-Adjuvanting Peptide Vaccines with Enhanced Immune Responses for HPV-Associated Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49737-49753.	8.0	7
351	Safety Evaluation of Nanotechnology Products. <i>Pharmaceutics</i> , 2021, 13, 1615.	4.5	18
352	Innovative vaccine platforms against infectious diseases: Under the scope of the COVID-19 pandemic. <i>International Journal of Pharmaceutics</i> , 2021, 610, 121212.	5.2	11
353	Established and advanced adjuvants in vaccines' formulation: Mineral adsorbents, nanoparticulate carriers and microneedle delivery systems. <i>Arhiv Za Farmaciju</i> , 2019, 69, 420-451.	0.5	1
354	Immunomodulatory Nanomaterials. <i>Pancreatic Islet Biology</i> , 2019, , 119-142.	0.3	2
355	ncRNAs in Therapeutics: Challenges and Limitations in Nucleic Acid-Based Drug Delivery. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11596.	4.1	20
356	Nanomedicines and Nanodrug Delivery Systems: Trends and Perspectives. , 2020, , 99-141.		3
357	Introduction to Nanomedicine in Drug Delivery. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2020, , 3-26.	0.6	2
358	Nanopartikeller. <i>Journal of Anatolian Environmental and Animal Sciences</i> , 0, , .	0.7	1
359	The Interactions between Nanoparticles and the Innate Immune System from a Nanotechnologist Perspective. <i>Nanomaterials</i> , 2021, 11, 2991.	4.1	30
360	Innovatory role of nanomaterials as bio-tools for treatment of cancer. <i>Reviews in Inorganic Chemistry</i> , 2021, 41, 61-75.	4.1	0
361	The dry powder formulation of mixed cross-linked dextran microspheres and tetanus toxoid-loaded trimethyl chitosan nanospheres as a potent adjuvant for nasal delivery system. <i>Iranian Journal of Basic Medical Sciences</i> , 2021, 24, 116-122.	1.0	1
362	Modulating Osteoimmune Responses by Mesoporous Silica Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 4110-4122.	5.2	17
363	Review of Functionalized Nanomaterials for Photothermal Therapy of Cancers. <i>ACS Applied Nano Materials</i> , 2021, 4, 11353-11385.	5.0	75
364	Porous silicon materials for cancer and immunotherapy. , 2021, , 571-609.		0

#	ARTICLE	IF	CITATIONS
365	Antitumor Peptide-Based Vaccine in the Limelight. <i>Vaccines</i> , 2022, 10, 70.	4.4	10
366	Multifunctional inorganic nanomaterials for cancer photoimmunotherapy. <i>Cancer Communications</i> , 2022, 42, 141-163.	9.2	48
367	Nanomaterials with changeable physicochemical property for boosting cancer immunotherapy. <i>Journal of Controlled Release</i> , 2022, 342, 210-227.	9.9	16
368	Immuno-modulatory biomaterials as anti-inflammatory therapeutics. <i>Biochemical Pharmacology</i> , 2022, 197, 114890.	4.4	11
369	Nanoparticles for generating antigen-specific T cells for immunotherapy. <i>Seminars in Immunology</i> , 2021, 56, 101541.	5.6	13
370	Active targeting via ligand-anchored pH-responsive strontium nanoparticles for efficient nucleic acid delivery into breast cancer cells. <i>Journal of Pharmaceutical Investigation</i> , 2022, 52, 243-257.	5.3	14
371	Paclitaxel Delivery by Cationic Gelatin Nanoparticles. <i>ChemistrySelect</i> , 2022, 7, .	1.5	5
372	Biomaterial-assisted biotherapy: A brief review of biomaterials used in drug delivery, vaccine development, gene therapy, and stem cell therapy. <i>Bioactive Materials</i> , 2022, 17, 29-48.	15.6	42
373	Lactoferrin-Functionalized Noble Metal Nanoparticles as New Antivirals for HSV-2 Infection. <i>Microorganisms</i> , 2022, 10, 110.	3.6	18
374	Emerging strategies for biomaterial-assisted cancer immunotherapy. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 227-240.	2.7	1
375	Anticancer Vaccination with Immunogenic Micelles That Capture and Release Pristine CD8 ⁺ T-Cell Epitopes and Adjuvants. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2510-2521.	8.0	5
376	Dynamic Transformation of DNA Nanostructures inside Living Cells. <i>ChemPlusChem</i> , 2022, 87, e202100519.	2.8	6
377	Targeted therapy of tumour microenvironment by gold nanoparticles as a new therapeutic approach. <i>Journal of Drug Targeting</i> , 2022, 30, 494-510.	4.4	4
378	Novel preparation of bilirubin-encapsulated pluronic F-127 nanoparticles as a potential biomaterial for wound healing. <i>European Journal of Pharmacology</i> , 2022, 919, 174809.	3.5	9
380	DNA vaccines for cancer treatment. , 2022, , 259-278.		0
381	Surface functionalization of magnetic nanoparticles: potentials for biomedical applications. , 2022, , 237-253.		0
382	Utilization of metal or non-metal-based functional materials as efficient composites in cancer therapies. <i>RSC Advances</i> , 2022, 12, 6540-6551.	3.6	2
383	Nano dimensions/adjuvants in COVID-19 vaccines. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1520-1552.	5.8	5

#	ARTICLE	IF	CITATIONS
384	Nanomedicine as a Promising Tool to Overcome Immune Escape in Breast Cancer. <i>Pharmaceutics</i> , 2022, 14, 505.	4.5	7
385	Exploiting autophagy-regulative nanomaterials for activation of dendritic cells enables reinforced cancer immunotherapy. <i>Biomaterials</i> , 2022, 282, 121434.	11.4	21
386	Biological Nanoparticles in Vaccine Development. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 867119.	4.1	19
387	Efficacy and Immune Response Elicited by Gold Nanoparticle- Based Nanovaccines against Infectious Diseases. <i>Vaccines</i> , 2022, 10, 505.	4.4	24
388	Gold Nanorods for Drug and Gene Delivery: An Overview of Recent Advancements. <i>Pharmaceutics</i> , 2022, 14, 664.	4.5	12
389	Vertical Orientation Probability Matters for Enhancing Nanoparticle-Macrophage Interaction and Efficient Phagocytosis. <i>Small Methods</i> , 2022, 6, e2101601.	8.6	4
390	Advancement of cancer immunotherapy using nanoparticles-based nanomedicine. <i>Seminars in Cancer Biology</i> , 2022, 86, 624-644.	9.6	41
391	Nanoparticle-Based Drug Delivery Systems for Induction of Tolerance and Treatment of Autoimmune Diseases. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 889291.	4.1	14
392	Mechanistic understanding of the aspect ratio-dependent adjuvanticity of engineered aluminum oxyhydroxide nanorods in prophylactic vaccines. <i>Nano Today</i> , 2022, 43, 101445.	11.9	18
393	Protein corona-driven nanovaccines improve antigen intracellular release and immunotherapy efficacy. <i>Journal of Controlled Release</i> , 2022, 345, 601-609.	9.9	5
394	A Nanoscale Shape-Discovery Framework Supporting Systematic Investigations of Shape-Dependent Biological Effects and Immunomodulation. <i>ACS Nano</i> , 2022, 16, 1547-1559.	14.6	16
395	Engineered Hydroxyapatite Nanoadjuvants with Controlled Shape and Aspect Ratios Reveal Their Immunomodulatory Potentials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59662-59672.	8.0	7
396	Role of Ligand Distribution in the Cytoskeleton-Associated Endocytosis of Ellipsoidal Nanoparticles. <i>Membranes</i> , 2021, 11, 993.	3.0	3
398	Nanovaccine Delivery Approaches and Advanced Delivery Systems for the Prevention of Viral Infections: From Development to Clinical Application. <i>Pharmaceutics</i> , 2021, 13, 2091.	4.5	19
399	Tailored Nanoparticles as Vaccine Components. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11898.	2.5	0
400	Nanoparticle/Nanocarrier Formulation as an Antigen: The Immunogenicity and Antigenicity of Itself. <i>Molecular Pharmaceutics</i> , 2022, 19, 148-159.	4.6	9
401	Nanoscience versus Viruses: The SARS-CoV-2 Case. <i>Advanced Functional Materials</i> , 2022, 32, 2107826.	14.9	8
402	Nano toolbox in immune modulation and nanovaccines. <i>Trends in Biotechnology</i> , 2022, 40, 1195-1212.	9.3	31

#	ARTICLE	IF	CITATIONS
403	The Shape of Nanostructures Encodes Immunomodulation of Carbohydrate Antigen and Vaccine Development. <i>ACS Chemical Biology</i> , 2022, 17, 1122-1130.	3.4	13
409	Construction of Branched DNA-based Nanostructures for Diagnosis, Therapeutics and Protein Engineering. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	6
411	Nanotechnology-enabled immunoengineering approaches to advance therapeutic applications. <i>Nano Convergence</i> , 2022, 9, 19.	12.1	12
412	In vivo fate and intracellular trafficking of vaccine delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2022, 186, 114325.	13.7	26
413	Adjuvant-free cellulose nanofiber vaccine induces permanent humoral immune response in mouse. <i>Nanotechnology</i> , 2022, , .	2.6	3
414	Nanoparticles based antibacterial vaccines: Novel strategy to combat antimicrobial resistance. <i>Process Biochemistry</i> , 2022, 119, 82-89.	3.7	4
415	Advances in the polymeric delivery of nucleic acid vaccines. <i>Theranostics</i> , 2022, 12, 4081-4109.	10.0	23
416	Injectable host-guest gel nanovaccine for cancer immunotherapy against melanoma. <i>Materials Today Advances</i> , 2022, 15, 100236.	5.2	13
417	Pathways Related to NLRP3 Inflammasome Activation Induced by Gold Nanorods. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5763.	4.1	1
419	Rationally-designed Chitosan-based Polymeric Nanomaterials According to Intrinsic Characteristics for Cancer Therapy and Theranostics: A Review. <i>Current Medicinal Chemistry</i> , 2023, 30, 1368-1385.	2.4	2
420	Nanovaccines delivery approaches against infectious diseases. , 2022, , 425-484.		0
421	Gold nanoparticles decorated with ovalbumin-derived epitopes: effect of shape and size on T-cell immune responses. <i>RSC Advances</i> , 2022, 12, 19703-19716.	3.6	1
422	Nanotechnology-based approaches against COVID-19. , 2022, , 305-364.		0
423	Activation of Cellular Players in Adaptive Immunity via Exogenous Delivery of Tumor Cell Lysates. <i>Pharmaceutics</i> , 2022, 14, 1358.	4.5	5
424	Dual-responsive nanovaccine for cytosolic delivery of antigens to boost cellular immune responses and cancer immunotherapy. <i>Asian Journal of Pharmaceutical Sciences</i> , 2022, 17, 583-595.	9.1	10
425	Physico-chemical properties of aluminum adjuvants in vaccines: Implications for toxicological evaluation. <i>Vaccine</i> , 2022, 40, 4881-4888.	3.8	13
426	Metal-Based Compounds in Antiviral Therapy. <i>Biomolecules</i> , 2022, 12, 933.	4.0	17
427	Ceria nanoparticles prophylactic used for renal ischemia-reperfusion injury treatment by attenuating oxidative stress and inflammatory response. <i>Biomaterials</i> , 2022, 287, 121686.	11.4	23

#	ARTICLE	IF	CITATIONS
428	Nano-Vaccination strategies: Applications and Challenges for Intranasal Immunization.. Current Pharmaceutical Biotechnology, 2022, 23, .	1.6	1
429	Self-adjuvanting cancer nanovaccines. Journal of Nanobiotechnology, 2022, 20, .	9.1	14
430	Gold nanocrystals: optical properties, fine-tuning of the shape, and biomedical applications. RSC Advances, 2022, 12, 23057-23073.	3.6	5
431	Think like a Virus: Toward Improving Nanovaccine Development against SARS-CoV-2. Viruses, 2022, 14, 1553.	3.3	9
432	Engineered metal and their complexes for nanomedicine-elicited cancer immunotherapy. Materials Today Advances, 2022, 15, 100276.	5.2	4
433	Immunostimulatory Polymers as Adjuvants, Immunotherapies, and Delivery Systems. Macromolecules, 2022, 55, 6913-6937.	4.8	20
434	The Influence of Nanoparticle on Vaccine Responses against Bacterial Infection. Journal of Nanotechnology, 2022, 2022, 1-15.	3.4	3
435	Development of a cell line-based in vitro assay for assessment of Diphtheria, Tetanus and acellular Pertussis (DTaP)-induced inflammasome activation. Vaccine, 2022, 40, 5601-5607.	3.8	2
436	Nanoimmunoengineering strategies in cancer diagnosis and therapy. Clinical and Translational Oncology, 2023, 25, 78-90.	2.4	3
437	Exploring the role of nanomedicines for the therapeutic approach of central nervous system dysfunction: At a glance. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	17
438	Applications of Nanomedicine in Animal Models of Cancer. , 2022, , 1-14.		0
439	Organicâ€“Inorganic Nanohybrids in Medicine. Materials Horizons, 2022, , 77-106.	0.6	0
441	Immunomodulation, Toxicity, and Therapeutic Potential of Nanoparticles. BioTech, 2022, 11, 42.	2.6	5
442	Nanovaccines: Merits, and diverse roles in boosting antitumor immune responses. Human Vaccines and Immunotherapeutics, 2022, 18, .	3.3	2
443	Nanovaccines to combat virusâ€“related diseases. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2023, 15, .	6.1	3
444	The importance of the <sc>IL</sc> family of cytokines in nanoimmunosafety and nanotoxicology. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, .	6.1	4
445	Polymeric Nanoparticles for Inhaled Vaccines. Polymers, 2022, 14, 4450.	4.5	7
446	PEGylated Gold Nanoparticles Target Age-Associated B Cells In Vivo. ACS Nano, 2022, 16, 18119-18132.	14.6	7

#	ARTICLE	IF	CITATIONS
447	Cationic Polyethyleneimine (PEI)â€“Gold Nanocomposites Modulate Macrophage Activation and Reprogram Mouse Breast Triple-Negative MET-1 Tumor Immunological Microenvironment. <i>Pharmaceutics</i> , 2022, 14, 2234.	4.5	2
448	Modern Biomedical Applications of Magnetic Nanoparticles. <i>Springer Briefs in Molecular Science</i> , 2023, , 25-91.	0.1	1
449	Fungal-mediated synthesis of gold nanoparticles and their biological applications. , 2023, , 23-58.		0
451	Penetration and translocation of functional inorganic nanomaterials into biological barriers. <i>Advanced Drug Delivery Reviews</i> , 2022, 191, 114615.	13.7	20
452	Success of nano-vaccines against COVID-19: a transformation in nanomedicine. <i>Expert Review of Vaccines</i> , 2022, 21, 1739-1761.	4.4	2
453	Pairing Nanoparticles Geometry with TLR Agonists to Modulate Immune Responses for Vaccine Development. <i>ACS Applied Bio Materials</i> , 2022, 5, 5675-5681.	4.6	2
454	Nanoparticle-Based Delivery Systems for Vaccines. <i>Vaccines</i> , 2022, 10, 1946.	4.4	42
455	Nanomedicine: Principles, properties, and regulatory issues. , 2023, , 523-565.		1
456	The History of Antibiotics Illumes the Future of Antimicrobial Peptides Administered Through Nanosystems. <i>Nanotechnology in the Life Sciences</i> , 2022, , 1-74.	0.6	0
457	Nanotechnologyâ€™Assisted Immunoengineering for Cancer Vaccines. <i>Advanced NanoBiomed Research</i> , 2023, 3, .	3.6	2
458	A modular and self-adjuvanted multivalent vaccine platform based on porcine circovirus virus-like nanoparticles. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	9.1	6
459	Advanced Plasmonic Nanoparticle-Based Techniques for the Prevention, Detection, and Treatment of Current COVID-19. <i>Plasmonics</i> , 2023, 18, 311-347.	3.4	4
460	Nanovaccines for cancer immunotherapy: Current knowledge and future perspectives. <i>Chinese Chemical Letters</i> , 2023, 34, 108098.	9.0	6
461	Controlled Release of DNA Binding Anticancer Drugs from Gold Nanoparticles with Near-Infrared Radiation. <i>Journal of Pharmaceutical Sciences</i> , 2023, 112, 1064-1071.	3.3	1
462	Nano-Immunomodulation: A New Strategy for Skeletal Muscle Diseases and Aging?. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1175.	4.1	0
463	Vaccination with Formulation of Nanoparticles Loaded with <i>LeishmaniaÂamazonensis</i> Antigens Confers Protection against Experimental Visceral Leishmaniasis in Hamster. <i>Vaccines</i> , 2023, 11, 111.	4.4	3
464	Nanomaterials and Advances in Tumor Immune-Related Therapy: A Bibliometric Analysis. <i>Journal of Biomedical Nanotechnology</i> , 2022, 18, 2154-2170.	1.1	1
465	In-vivo processing of nanoassemblies: a neglected framework for recycling to bypass nanotoxicological therapeutics. <i>Toxicology Research</i> , 0, , .	2.1	0

#	ARTICLE	IF	CITATIONS
466	Applications of Nanomedicine in Animal Models of Cancer. , 2023, , 1125-1137.		0
467	Nanomaterials and Their Impact on the Immune System. International Journal of Molecular Sciences, 2023, 24, 2008.	4.1	16
468	Bioactive self-healing hydrogel based on tannic acid modified gold nano-crosslinker as an injectable brain implant for treating Parkinsonâ€™s disease. Biomaterials Research, 2023, 27, .	6.9	10
469	Orchestrating antigen delivery and presentation efficiency in lymph node by nanoparticle shape for immune response. Acta Pharmaceutica Sinica B, 2023, 13, 3892-3905.	12.0	1
470	Roles of biomaterials in modulating the innate immune response in ocular therapy. Frontiers in Drug Delivery, 0, 3, .	1.6	0
471	Comparative evaluation of gold nanoparticles and Alum as immune enhancers against rabies vaccine and related immune reactivity, physiological, and histopathological alterations: <i>in vivo</i> study. Clinical and Experimental Vaccine Research, 2023, 12, 32.	2.2	0
472	Advanced Biomaterials with Intrinsic Immunomodulation Effects for Cancer Immunotherapy. Small Methods, 2023, 7, .	8.6	3
473	Vaccine-like nanomedicine for cancer immunotherapy. Journal of Controlled Release, 2023, 355, 760-778.	9.9	33
474	Boron nanoparticles in chemotherapy and radiotherapy: the synthesis, state-of-the-art, and prospects. Russian Chemical Bulletin, 2022, 71, 2533-2560.	1.5	2
475	Current Trends and Prospects for Application of Green Synthesized Metal Nanoparticles in Cancer and COVID-19 Therapies. Viruses, 2023, 15, 741.	3.3	8
476	Polyvalent Glycan Functionalized Quantum Nanorods as Mechanistic Probes for Shape-Selective Multivalent Lectin-Glycan Recognition. ACS Applied Nano Materials, 2023, 6, 4201-4213.	5.0	0
477	Role of metal nanoparticles for treatment of and prevention of viral infections. , 2023, , 97-123.		0
478	Engineering nanomaterial physical characteristics for cancer immunotherapy. , 2023, 1, 499-517.		11
479	pH Responsive Poly(Amino Acid) Nanoparticles as Potent Carrier Adjuvants for Enhancing Cellular Immunity. Macromolecular Bioscience, 0, , .	4.1	1
480	Adjuvant action of needle-shaped BC microfibrils. Cellulose, 2023, 30, 4263-4276.	4.9	0
481	Overcoming the Limitations of Therapeutic Strategies to Combat Pancreatic Cancer Using Nanotechnology. Current Cancer Drug Targets, 2023, 23, .	1.6	1
482	Materials engineering strategies for cancer vaccine adjuvant development. Chemical Society Reviews, 2023, 52, 2886-2910.	38.1	19
483	A Comprehensive Survey on the Expediated Anti-COVID-19 Options Enabled by Metal Complexesâ€™Tasks and Trials. Molecules, 2023, 28, 3354.	3.8	3

#	ARTICLE	IF	CITATIONS
484	Modified dipeptide based nanospheres as a potent adjuvating delivery system for recombinant vaccines. <i>Frontiers in Drug Delivery</i> , 0, 3, .	1.6	1
485	Biomaterials Facilitating Dendritic Cell-Mediated Cancer Immunotherapy. <i>Advanced Science</i> , 2023, 10, .	11.2	13
486	Adsorption/internalization kinetics and subcellular distribution. <i>Colloids and Interface Science Communications</i> , 2023, 54, 100712.	4.1	0
487	Peptide Hydrogels as Immunomaterials and Their Use in Cancer Immunotherapy Delivery. <i>Advanced Healthcare Materials</i> , 2023, 12, .	7.6	7
488	Advances in Nano Vaccines: Covid-19. , 2023, , 195-206.		0
489	Nanoparticle cytotoxicity: From beneficial uses to carcinogenic effects. , 2023, , 607-631.		0
490	Positively Charged-Amylose-Entangled Au-Nanoparticles Acting as Protein Carriers and Potential Adjuvants to SARS-CoV-2 Subunit Vaccines. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 29982-29997.	8.0	4
491	in-vitro Safety Assessment of Ultrasmall Gold Nanoparticles for Preclinical Drug Delivery Applications. <i>Drug Delivery Letters</i> , 2023, 13, .	0.5	0
492	Nanoparticle-based immunotherapeutics: From the properties of nanocores to the differential effects of administration routes. <i>Advanced Drug Delivery Reviews</i> , 2023, 197, 114829.	13.7	3
493	Layer-by-Layer Nanoassemblies for Vaccination Purposes. <i>Pharmaceutics</i> , 2023, 15, 1449.	4.5	2
494	T cells, NK cells, and tumor-associated macrophages in cancer immunotherapy and the current state of the art of drug delivery systems. <i>Frontiers in Immunology</i> , 0, 14, .	4.8	3
495	Nanoparticle-Based Adjuvants and Delivery Systems for Modern Vaccines. <i>Vaccines</i> , 2023, 11, 1172.	4.4	5
496	Gold Nanoparticles: Construction for Drug Delivery and Application in Cancer Immunotherapy. <i>Pharmaceutics</i> , 2023, 15, 1868.	4.5	5
497	T Cell Activating Thermostable Self-Assembly Nanoscaffold Tailored for Cellular Immunity Antigen Delivery. <i>Advanced Science</i> , 2023, 10, .	11.2	2
498	Nanovaccine-based strategies for lymph node targeted delivery and imaging in tumor immunotherapy. <i>Journal of Nanobiotechnology</i> , 2023, 21, .	9.1	5
499	Investigating the Potential of Cuboidal Nanometals as Protein Subunit Vaccine Carriers In Vivo. <i>Advanced Materials Interfaces</i> , 0, , .	3.7	0
500	Synthesis of gold nanoparticles with different sizes and morphologies using a single LTCC-based microfluidic system for point-of-care use in personalized medicine. <i>Microfluidics and Nanofluidics</i> , 2023, 27, .	2.2	1
501	The current status of stimuli-responsive nanotechnologies on orthopedic titanium implant surfaces. <i>Journal of Nanobiotechnology</i> , 2023, 21, .	9.1	4

#	ARTICLE	IF	CITATIONS
502	The emergence of nanovaccines as a new paradigm in virological vaccinology: a review. Exploration of Immunology, 0, , 361-383.	0.3	0
503	Identity crisis of nanostructures inside the human body: a perspective on inflammation. Frontiers in Nanotechnology, 0, 5, .	4.8	0
504	Delivery of Immunostimulatory Cargos in Nanocarriers Enhances Anti-Tumoral Nanovaccine Efficacy. International Journal of Molecular Sciences, 2023, 24, 12174.	4.1	2
505	Green Nanotechnology Approaches in Vaccinology: Advantages and Disadvantages in Biomedical Sciences. , 2023, , 281-299.		0
506	Nanovaccines: A game changing approach in the fight against infectious diseases. Biomedicine and Pharmacotherapy, 2023, 167, 115597.	5.6	7
507	Anti-Tumor Activity of Novel Nimotuzumab-Functionalized Gold Nanoparticles as a Potential Immunotherapeutic Agent against Skin and Lung Cancers. Journal of Functional Biomaterials, 2023, 14, 407.	4.4	4
508	Metal-Based Nanoparticles for the Diagnostics, Therapy, and Prevention of Viral Infections. Nanobiotechnology Reports, 2023, 18, 165-188.	0.6	0
509	Clinical Applications of Nanovaccine Formulation Technology Market Research. , 2023, , 301-330.		0
510	Diversities of Various Nanomaterials-Based Vaccines for Healthcare Applications. , 2023, , 1-21.		0
511	Targeting Lewis X oligosaccharide-modified liposomes encapsulated with house dust mite allergen Der f 2 to dendritic cells inhibits Th2 immune response. European Journal of Pharmaceutical Sciences, 2023, 190, 106570.	4.0	0
512	Development and evaluation of cell membrane-based biomimetic nanoparticles loaded by <i>Clostridium perfringens</i> epsilon toxin: a novel vaccine delivery platform for <i>Clostridial</i> -associated diseases. Nanotoxicology, 2023, 17, 420-431.	3.0	1
513	Advances in dendritic cell targeting nano-delivery systems for induction of immune tolerance. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	1
514	Mevcut ve Gelişmekte Olan Aşırı Teknolojileri; Kâsa derleme. Journal of Biotechnology and Strategic Health Research, 0, , .	1.8	0
515	Nano-Adjuvants. AAPS Advances in the Pharmaceutical Sciences Series, 2023, , 297-330.	0.6	0
516	The Distinct Properties of Polysaccharide Nanoparticles Tune Immune Responses against mRNA Antigen via Stimulator of Interferon Genes-Mediated Autophagy and Inflammasome. ACS Nano, 2023, 17, 21782-21798.	14.6	1
517	Regulation of Antigen-specific Immunotherapy with Nanomaterials. Advanced NanoBiomed Research, 2023, 3, .	3.6	0
518	SARS-CoV-2 Nanovaccine Composed of Microfluidic-Produced Gold Nanoparticles Induces Neutralizing Immune Responses. ACS Applied Nano Materials, 2023, 6, 22774-22783.	5.0	1
519	Nanotechnology Platform for Advancing Vaccine Development against the COVID-19 Virus. Diseases (Basel, Switzerland), 2023, 11, 177.	2.5	0

#	ARTICLE	IF	CITATIONS
520	The use of a complex tetra-culture alveolar model to study the biological effects induced by gold nanoparticles with different physicochemical properties. <i>Environmental Toxicology and Pharmacology</i> , 2024, 106, 104353.	4.0	0
521	Advanced nanoscale delivery systems for mRNA-based vaccines. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2024, 1868, 130558.	2.4	1
522	Cellular interactions and design principles of glyco-gold nanoparticles for drug delivery applications. , 2024, , 85-119.		0
523	Synthesis and evaluation of gold nanoparticles conjugated with five antigenic peptides derived from the spike protein of SARS-CoV-2 for vaccine development. <i>Frontiers in Nanotechnology</i> , 0, 6, .	4.8	0
524	The Effect of Cholesterol Content on the Adjuvant Activity of Nucleic-Acid-Free Lipid Nanoparticles. <i>Pharmaceutics</i> , 2024, 16, 181.	4.5	0
525	Peptide nanovaccine in melanoma immunotherapy. <i>International Immunopharmacology</i> , 2024, 129, 111543.	3.8	0
526	Nanoparticles Targeting Lymph Nodes for Cancer Immunotherapy: Strategies and Influencing Factors. <i>Small</i> , 2024, 20, .	10.0	0
527	Progress in the Application of Gold Nanoparticles in Viral Diseases. <i>Hans Journal of Nanotechnology</i> , 2024, 14, 1-11.	0.0	0
528	The quest for nanoparticle-powered vaccines in cancer immunotherapy. <i>Journal of Nanobiotechnology</i> , 2024, 22, .	9.1	1
529	Recent Progression in Controlled Drug Delivery Through Advanced Functional Nanomaterials in Cancer Therapy. <i>BioNanoScience</i> , 0, , .	3.5	0
530	Developments and Trends of Nanotechnology Application in Sepsis: A Comprehensive Review Based on Knowledge Visualization Analysis. <i>ACS Nano</i> , 2024, 18, 7711-7738.	14.6	0
531	MDSC-targeting gold nanoparticles enhance PD-1 tumor immunotherapy by inhibiting NLRP3 inflammasomes. <i>Biomaterials</i> , 2024, 307, 122533.	11.4	0
532	Engineering customized nanovaccines for enhanced cancer immunotherapy. <i>Bioactive Materials</i> , 2024, 36, 330-357.	15.6	0
533	Engineering nanoparticles for cancer immunotherapy: Current achievements, key considerations and future perspectives. <i>Chemical Engineering Journal</i> , 2024, 486, 150356.	12.7	0