

Mahmoud Elsabahy

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

5,252
citations

117625

34
h-index

85541

71
g-index

84
all docs

84
docs citations

84
times ranked

8041
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of polymeric nanoparticles for biomedical delivery applications. <i>Chemical Society Reviews</i> , 2012, 41, 2545.	38.1	1,441
2	Polymeric Nanostructures for Imaging and Therapy. <i>Chemical Reviews</i> , 2015, 115, 10967-11011.	47.7	420
3	Cytokines as biomarkers of nanoparticle immunotoxicity. <i>Chemical Society Reviews</i> , 2013, 42, 5552.	38.1	326
4	Non-Viral Nucleic Acid Delivery: Key Challenges and Future Directions. <i>Current Drug Delivery</i> , 2011, 8, 235-244.	1.6	180
5	Improving Paclitaxel Delivery: <i>In Vitro</i> and <i>In Vivo</i> Characterization of PEGylated Polyphosphoester-Based Nanocarriers. <i>Journal of the American Chemical Society</i> , 2015, 137, 2056-2066.	13.7	176
6	Rapid and Versatile Construction of Diverse and Functional Nanostructures Derived from a Polyphosphoester-Based Biomimetic Block Copolymer System. <i>Journal of the American Chemical Society</i> , 2012, 134, 18467-18474.	13.7	165
7	Absorbable hemostatic hydrogels comprising composites of sacrificial templates and honeycomb-like nanofibrous mats of chitosan. <i>Nature Communications</i> , 2019, 10, 2307.	12.8	141
8	Poly(ethylene oxide)- <i>block</i> -Polyphosphoester- <i>graft</i> -Paclitaxel Conjugates with Acid-Labile Linkages as a pH-Sensitive and Functional Nanoscopic Platform for Paclitaxel Delivery. <i>Advanced Healthcare Materials</i> , 2014, 3, 441-448.	7.6	129
9	In vitro and in vivo evaluation of biologically synthesized silver nanoparticles for topical applications: effect of surface coating and loading into hydrogels. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 759-777.	6.7	126
10	Poly(ethylene oxide)- <i>block</i> -polyphosphoester-based paclitaxel conjugates as a platform for ultra-high paclitaxel-loaded multifunctional nanoparticles. <i>Chemical Science</i> , 2013, 4, 2122.	7.4	116
11	Nanostructured lipid carriers for improved oral delivery and prolonged antihyperlipidemic effect of simvastatin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 236-245.	5.0	86
12	Polymeric nanoparticles in development for treatment of pulmonary infectious diseases. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 842-871.	6.1	84
13	Strategies toward well-defined polymer nanoparticles inspired by nature: Chemistry versus versatility. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1869-1880.	2.3	83
14	Advancing nonviral gene delivery: lipid- and surfactant-based nanoparticle design strategies. <i>Nanomedicine</i> , 2010, 5, 1103-1127.	3.3	82
15	Solubilization of Docetaxel in Poly(ethylene oxide)- <i>block</i> -poly(butylene/styrene oxide) Micelles. <i>Biomacromolecules</i> , 2007, 8, 2250-2257.	5.4	74
16	Endosomal escape and siRNA delivery with cationic shell crosslinked knedel-like nanoparticles with tunable buffering capacities. <i>Biomaterials</i> , 2012, 33, 8557-8568.	11.4	72
17	Development of a Vinyl Ether-Functionalized Polyphosphoester as a Template for Multiple Postpolymerization Conjugation Chemistries and Study of Core Degradable Polymeric Nanoparticles. <i>Macromolecules</i> , 2014, 47, 4634-4644.	4.8	64
18	Surface Charges and Shell Crosslinks Each Play Significant Roles in Mediating Degradation, Biofouling, Cytotoxicity and Immunotoxicity for Polyphosphoester-based Nanoparticles. <i>Scientific Reports</i> , 2013, 3, 3313.	3.3	63

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19	Niosomes: A Strategy toward Prevention of Clinically Significant Drug Incompatibilities. <i>Scientific Reports</i> , 2017, 7, 6340.	3.3	63
20	Aminated Linear and Star-Shape Poly(glycerol methacrylate)s: Synthesis and Self-Assembling Properties. <i>Biomacromolecules</i> , 2010, 11, 889-895.	5.4	62
21	Delivery of Nucleic Acids through the Controlled Disassembly of Multifunctional Nanocomplexes. <i>Advanced Functional Materials</i> , 2009, 19, 3862-3867.	14.9	61
22	Data Mining as a Guide for the Construction of Cross-Linked Nanoparticles with Low Immunotoxicity via Control of Polymer Chemistry and Supramolecular Assembly. <i>Accounts of Chemical Research</i> , 2015, 48, 1620-1630.	15.6	60
23	siRNA nanocarriers based on methacrylic acid copolymers. <i>Journal of Controlled Release</i> , 2011, 152, 159-167.	9.9	58
24	Nanomedicine in management of hepatocellular carcinoma: Challenges and opportunities. <i>International Journal of Cancer</i> , 2017, 140, 1475-1484.	5.1	54
25	<i>In Vitro</i> Efficacy of Paclitaxel-Loaded Dual-Responsive Shell Cross-Linked Polymer Nanoparticles Having Orthogonally Degradable Disulfide Cross-Linked Corona and Polyester Core Domains. <i>Molecular Pharmaceutics</i> , 2013, 10, 1092-1099.	4.6	53
26	Betaxolol-loaded niosomes integrated within pH-sensitive in situ forming gel for management of glaucoma. <i>International Journal of Pharmaceutics</i> , 2021, 598, 120380.	5.2	52
27	Ultrahigh antibacterial efficacy of meropenem-loaded chitosan nanoparticles in a septic animal model. <i>Carbohydrate Polymers</i> , 2017, 174, 1041-1050.	10.2	49
28	Vancomycin-loaded niosomes integrated within pH-sensitive in-situ forming gel for treatment of ocular infections while minimizing drug irritation. <i>Journal of Pharmacy and Pharmacology</i> , 2019, 71, 1209-1221.	2.4	49
29	Hierarchically Assembled Theranostic Nanostructures for siRNA Delivery and Imaging Applications. <i>Journal of the American Chemical Society</i> , 2012, 134, 17362-17365.	13.7	44
30	Multifunctional Hierarchically Assembled Nanostructures as Complex Stage-Wise Dual-Delivery Systems for Coincidental Yet Differential Trafficking of siRNA and Paclitaxel. <i>Nano Letters</i> , 2013, 13, 2172-2181.	9.1	43
31	Shell crosslinked knedel-like nanoparticles for delivery of cisplatin: effects of crosslinking. <i>Nanoscale</i> , 2013, 5, 3220.	5.6	42
32	Methods for preparation of niosomes: A focus on thin-film hydration method. <i>Methods</i> , 2022, 199, 9-15.	3.8	42
33	Electrospun vancomycin-loaded nanofibers for management of methicillin-resistant <i>Staphylococcus aureus</i> -induced skin infections. <i>International Journal of Pharmaceutics</i> , 2020, 586, 119620.	5.2	40
34	Degradable Cationic Shell Cross-Linked Knedel-like Nanoparticles: Synthesis, Degradation, Nucleic Acid Binding, and <i>In Vitro</i> Evaluation. <i>Biomacromolecules</i> , 2013, 14, 1018-1027.	5.4	35
35	Differential immunotoxicities of poly(ethylene glycol)- vs. poly(carboxybetaine)-coated nanoparticles. <i>Journal of Controlled Release</i> , 2013, 172, 641-652.	9.9	34
36	Synthesis and enzymatic stability of PEGylated oligonucleotide duplexes and their self-assemblies with polyamidoamine dendrimers. <i>Soft Matter</i> , 2008, 4, 294-302.	2.7	33

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37	Characterization of Polyion Complex Micelles Designed to Address the Challenges of Oligonucleotide Delivery. <i>Pharmaceutical Research</i> , 2008, 25, 2083-2093.	3.5	30
38	Polyphosphoester nanoparticles as biodegradable platform for delivery of multiple drugs and siRNA. <i>Drug Design, Development and Therapy</i> , 2017, Volume11, 483-496.	4.3	30
39	Functionalizable Hydrophilic Polycarbonate, Poly(5-methyl-5-(2-hydroxypropyl)aminocarbonyl-1,3-dioxan-2-one), Designed as a Degradable Alternative for PHPMA and PEG. <i>Macromolecules</i> , 2015, 48, 8797-8805.	4.8	29
40	Morphologic Design of Silver-Bearing Sugar-Based Polymer Nanoparticles for Uroepithelial Cell Binding and Antimicrobial Delivery. <i>Nano Letters</i> , 2021, 21, 4990-4998.	9.1	28
41	Shell-crosslinked knedel-like nanoparticles induce lower immunotoxicity than their non-crosslinked analogs. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5241.	5.8	26
42	Development and in vivo evaluation of chitosan beads for the colonic delivery of azathioprine for treatment of inflammatory bowel disease. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 109, 269-279.	4.0	26
43	Design and development of multifunctional polyphosphoester-based nanoparticles for ultrahigh paclitaxel dual loading. <i>Nanoscale</i> , 2017, 9, 15773-15777.	5.6	25
44	Levofloxacin-Loaded Nanoparticles Decrease Emergence of Fluoroquinolone Resistance in <i>Escherichia coli</i> . <i>Microbial Drug Resistance</i> , 2018, 24, 1098-1107.	2.0	24
45	Development of Fully Degradable Phosphonium-Functionalized Amphiphilic Diblock Copolymers for Nucleic Acids Delivery. <i>Biomacromolecules</i> , 2018, 19, 1212-1222.	5.4	23
46	Toward the Optimization of Dinitrosyl Iron Complexes as Therapeutics for Smooth Muscle Cells. <i>Molecular Pharmaceutics</i> , 2019, 16, 3178-3187.	4.6	21
47	Methods for preparation of nanostructured lipid carriers. <i>Methods</i> , 2022, 199, 3-8.	3.8	21
48	Acid-Triggered Polymer Backbone Degradation and Disassembly to Achieve Release of Camptothecin from Functional Polyphosphoramidate Nanoparticles. <i>ACS Macro Letters</i> , 2018, 7, 783-788.	4.8	20
49	Development and <i>in vivo</i> evaluation of chitosan nanoparticles for the oral delivery of albumin. <i>Pharmaceutical Development and Technology</i> , 2019, 24, 329-337.	2.4	17
50	Needle-free Gene Delivery Through the Skin: An Overview of Recent Strategies. <i>Current Pharmaceutical Design</i> , 2013, 19, 7301-7315.	1.9	17
51	High-Payload chitosan microparticles for the colonic delivery of quercetin: Development and in-vivo evaluation in a rabbit colitis model. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 58, 101832.	3.0	16
52	Nanoparticles integrating natural and synthetic polymers for <i>in vivo</i> insulin delivery. <i>Pharmaceutical Development and Technology</i> , 2021, 26, 30-40.	2.4	16
53	Design and Preclinical Evaluation of Chitosan/Kaolin Nanocomposites with Enhanced Hemostatic Efficiency. <i>Marine Drugs</i> , 2021, 19, 50.	4.6	14
54	A Vinyl Ether-Functional Polycarbonate as a Template for Multiple Postpolymerization Modifications. <i>Macromolecules</i> , 2018, 51, 3233-3242.	4.8	13

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55	Functional, Degradable Zwitterionic Polyphosphoesters as Biocompatible Coating Materials for Metal Nanostructures. <i>Langmuir</i> , 2019, 35, 1503-1512.	3.5	13
56	Development of potent nanosized isatin-isonicotinohydrazide hybrid for management of <i>Mycobacterium tuberculosis</i> . <i>International Journal of Pharmaceutics</i> , 2022, 612, 121369.	5.2	13
57	Reassessment of nanomaterials immunotoxicity. <i>Nano Today</i> , 2018, 20, 10-12.	11.9	11
58	Nanomedicine: a new paradigm to overcome drug incompatibilities. <i>Journal of Pharmacy and Pharmacology</i> , 2020, 72, 1289-1305.	2.4	11
59	Intratracheal Administration of Chloroquine-Loaded Niosomes Minimize Systemic Drug Exposure. <i>Pharmaceutics</i> , 2021, 13, 1677.	4.5	11
60	Morphologic design of sugar-based polymer nanoparticles for delivery of antidiabetic peptides. <i>Journal of Controlled Release</i> , 2021, 334, 1-10.	9.9	10
61	Erythrocyte-Membrane-Camouflaged Nanocarriers with Tunable Paclitaxel Release Kinetics via Macromolecular Stereocomplexation. , 2020, 2, 595-601.		9
62	Development and Evaluation of Letrozole-Loaded Hyaluronic Acid/Chitosan-Coated Poly(d,l-lactide-co-glycolide) Nanoparticles. <i>Journal of Pharmaceutical Innovation</i> , 0, , 1.	2.4	9
63	Poly(glycerol methacrylate)-based degradable nanoparticles for delivery of small interfering RNA. <i>Pharmaceutical Development and Technology</i> , 2018, 23, 387-399.	2.4	8
64	Resistance of primary breast cancer cells with enhanced pluripotency and stem cell activity to sex hormonal stimulation and suppression. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 105, 84-93.	2.8	8
65	Effects of Glutathione and Histidine on NO Release from a Dimeric Dinitrosyl Iron Complex (DNIC). <i>Inorganic Chemistry</i> , 2020, 59, 16998-17008.	4.0	7
66	Engineering of smart nanoconstructs for delivery of glucagon-like peptide-1 analogs. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120317.	5.2	7
67	Multiplexing techniques for measurement of the immunomodulatory effects of particulate materials: Precautions when testing micro- and nano-particles. <i>Methods</i> , 2019, 158, 81-85.	3.8	6
68	Sesamol Loaded Albumin Nanoparticles: A Boosted Protective Property in Animal Models of Oxidative Stress. <i>Pharmaceutics</i> , 2022, 15, 733.	3.8	6
69	Editorial [Hot Topic: Nanotechnology Enables Superior Medical Therapies (Guest Editors: Marianna Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	5
70	Development of Sedative Dexmedetomidine Sublingual In Situ Gels: In Vitro and In Vivo Evaluations. <i>Pharmaceutics</i> , 2022, 14, 220.	4.5	5
71	Self assembling properties of aminated poly(glycerol methacrylate)s. <i>Journal of Controlled Release</i> , 2011, 152, e142-e143.	9.9	3
72	Stability Study and Clinical Evaluation of Lipid Injectable Emulsion in Parenteral Nutrition Admixtures Used for Preterm Neonates. <i>Nutrition in Clinical Practice</i> , 2020, 36, 696-703.	2.4	2

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73	Multiple analyte profiling (MAP) index as a powerful diagnostic and therapeutic monitoring tool. <i>Methods</i> , 2021, 190, 26-32.	3.8	2
74	DEVELOPMENT AND CHARACTERIZATION OF NANOSTRUCTURED LIPID CARRIERS FOR TRANSDERMAL DELIVERY OF MELOXICAM. <i>Bulletin of Pharmaceutical Sciences</i> , 2019, 42, 51-62.	0.1	1
75	Core-Shell Nanoparticles for Biomedical Applications. <i>Frontiers in Nanobiomedical Research</i> , 2014, , 475-517.	0.1	0
76	Methods for preparation of nanoconstructs. <i>Methods</i> , 2022, 199, 1-2.	3.8	0
77	Applications of nanoengineered therapeutics and vaccines: special emphasis on COVID-19. , 2022, , 21-63.		0
78	Nanomaterials and immune system. , 2022, , 65-114.		0
79	Data analysis and interpretation. , 2022, , 145-168.		0
80	Methods for evaluation of the immunomodulatory effects of nanoparticles. , 2022, , 115-127.		0
81	Precautions during evaluation of immunotoxicity of particulate materials. , 2022, , 139-143.		0