Anna K Blakney

List of Publications by Year
in descending order

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47 papers	2,709 citations	201385 27 h-index	233125 45 g-index
53 all docs	53 docs citations	53 times ranked	4288 citing authors

#	Article	IF	Citations
1	Student award winner in the undergraduate category for the society of biomaterials 9th World Biomaterials Congress, Chengdu, China, June 1â€“5, 2012. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1375-1386.	2.1	367
2	Self-amplifying RNA SARS-CoV-2 lipid nanoparticle vaccine candidate induces high neutralizing antibody titers in mice. Nature Communications, 2020, 11, 3523.	5.8	357
3	Inside out: optimization of lipid nanoparticle formulations for exterior complexation and in vivo delivery of saRNA. Gene Therapy, 2019, 26, 363-372.	2.3	137
4	Microbial Composition Predicts Genital Tract Inflammation and Persistent Bacterial Vaginosis in South African Adolescent Females. Infection and Immunity, 2018, 86, .	1.0	136
5	Linking the foreign body response and protein adsorption to PEG-based hydrogels using proteomics. Biomaterials, 2015, 41, 26-36.	5.7	129
6	Immunomodulation by mesenchymal stem cells combats the foreign body response to cell-laden synthetic hydrogels. Biomaterials, 2015, 41, 79-88.	5.7	122
7	An Update on Self-Amplifying mRNA Vaccine Development. Vaccines, 2021, 9, 97.	2.1	117
8	Heterologous vaccination regimens with self-amplifying RNA and adenoviral COVID vaccines induce robust immune responses in mice. Nature Communications, 2021, 12, 2893.	5.8	104
9	Big Is Beautiful: Enhanced saRNA Delivery and Immunogenicity by a Higher Molecular Weight, Bioreducible, Cationic Polymer. ACS Nano, 2020, 14, 5711-5727.	7.3	92
10	Electrospun fibers for vaginal anti-HIV drug delivery. Antiviral Research, 2013, 100, S9-S16.	1.9	84
11	Temporal progression of the host response to implanted poly(ethylene glycol)â€based hydrogels. Journal of Biomedical Materials Research - Part A, 2011, 96A, 621-631.	2.1	70
12	Delivery of multipurpose prevention drug combinations from electrospun nanofibers using composite microarchitectures. International Journal of Nanomedicine, 2014, 9, 2967.	3.3	67
13	Neutrophils Enable Local and Nonâ€Invasive Liposome Delivery to Inflamed Skeletal Muscle and Ischemic Heart. Advanced Materials, 2020, 32, e2003598.	11.1	66
14	Nanoparticle-releasing nanofiber composites for enhanced inÂvivo vaginal retention. Biomaterials, 2017, 144, 1-16.	5.7	55
15	Polymeric and lipid nanoparticles for delivery of self-amplifying RNA vaccines. Journal of Controlled Release, 2021, 338, 201-210.	4.8	53
16	One Size Does Not Fit All: The Effect of Chain Length and Charge Density of Poly(ethylene imine) Based Copolymers on Delivery of pDNA, mRNA, and RepRNA Polyplexes. Biomacromolecules, 2018, 19, 2870-2879.	2.6	51
17	The Skin You Are In: Design-of-Experiments Optimization of Lipid Nanoparticle Self-Amplifying RNA Formulations in Human Skin Explants. ACS Nano, 2019, 13, 5920-5930.	7.3	44
18	Current Status and Future Perspectives on MRNA Drug Manufacturing. Molecular Pharmaceutics, 2022, 19, 1047-1058.	2.3	44

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19	Intramyocardial Injection of a Synthetic Hydrogel with Delivery of bFGF and IGF1 in a Rat Model of Ischemic Cardiomyopathy. Biomacromolecules, 2014, 15, 1-11.	2.6	41
20	Effect of tissue microenvironment on fibrous capsule formation to biomaterial-coated implants. Biomaterials, 2021, 273, 120806.	5.7	41
21	Nanoparticle-Based ARV Drug Combinations for Synergistic Inhibition of Cell-Free and Cellâ€“Cell HIV Transmission. Molecular Pharmaceutics, 2015, 12, 4363-4374.	2.3	40
22	Innate Inhibiting Proteins Enhance Expression and Immunogenicity of Self-Amplifying RNA. Molecular Therapy, 2021, 29, 1174-1185.	3.7	40
23	Quality by design modelling to support rapid RNA vaccine production against emerging infectious diseases. Npj Vaccines, 2021, 6, 65.	2.9	36
24	In pursuit of functional electrospun materials for clinical applications in humans. Therapeutic Delivery, 2016, 7, 387-409.	1.2	32
25	Structural Components for Amplification of Positive and Negative Strand VEEV Splitzicons. Frontiers in Molecular Biosciences, 2018, 5, 71.	1.6	31
26	Understanding the host response to cell-laden poly(ethylene glycol)-based hydrogels. Biomaterials, 2013, 34, 952-964.	5.7	30
27	Effects of cationic adjuvant formulation particle type, fluidity and immunomodulators on delivery and immunogenicity of saRNA. Journal of Controlled Release, 2019, 304, 65-74.	4.8	30
28	Mannosylated Poly(ethylene imine) Copolymers Enhance saRNA Uptake and Expression in Human Skin Explants. Biomacromolecules, 2020, 21, 2482-2492.	2.6	30
29	Optimization of Lipid Nanoparticles for saRNA Expression and Cellular Activation Using a Design-of-Experiment Approach. Molecular Pharmaceutics, 2022, 19, 1892-1905.	2.3	30
30	Effect of complexing lipids on cellular uptake and expression of messenger RNA in human skin explants. Journal of Controlled Release, 2021, 330, 1250-1261.	4.8	28
31	Rapidly Biodegrading PLGA-Polyurethane Fibers for Sustained Release of Physicochemically Diverse Drugs. ACS Biomaterials Science and Engineering, 2016, 2, 1595-1607.	2.6	26
32	The In Vitro, Ex Vivo, and In Vivo Effect of Polymer Hydrophobicity on Charge-Reversible Vectors for Self-Amplifying RNA. Biomacromolecules, 2020, 21, 3242-3253.	2.6	20
33	Application of electrospun fibers for female reproductive health. Drug Delivery and Translational Research, 2017, 7, 796-804.	3.0	19
34	Ornithine-derived oligomers and dendrimers forin vitrodelivery of DNA andex vivotransfection of skin cellsviasaRNA. Journal of Materials Chemistry B, 2020, 8, 4940-4949.	2.9	15
35	The next generation of RNA vaccines: self-amplifying RNA. Biochemist, 2021, 43, 14-17.	0.2	14
36	Presentation of antigen on extracellular vesicles using transmembrane domains from viral glycoproteins for enhanced immunogenicity. Journal of Extracellular Vesicles, 2022, 11, e12199.	5.5	14

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37	Simultaneous measurement of etravirine, maraviroc and raltegravir in pigtail macaque plasma, vaginal secretions and vaginal tissue using a LCâ€“MS/MS assay. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1025, 110-118.	1.2	11
38	Delayed BCG vaccination results in minimal alterations in T cell immunogenicity of acellular pertussis and tetanus immunizations in HIV-exposed infants. Vaccine, 2015, 33, 4782-4789.	1.7	10
39	In vitroâ€“ex vivo correlations between a cell-laden hydrogel and mucosal tissue for screening composite delivery systems. Drug Delivery, 2017, 24, 582-590.	2.5	10
40	Delayed BCG immunization does not alter antibody responses to EPI vaccines in HIV-exposed and -unexposed South African infants. Vaccine, 2016, 34, 3702-3709.	1.7	9
41	Next-generation COVID-19 vaccines: here come the proteins. Lancet, The, 2021, 397, 643-645.	6.3	9
42	An improved synthesis of poly(amidoamine)s for complexation with self-amplifying RNA and effective transfection. Polymer Chemistry, 2020, 11, 5861-5869.	1.9	8
43	Precisely targeted gene delivery in human skin using supramolecular cationic glycopolymers. Polymer Chemistry, 2020, 11, 3768-3774.	1.9	8
44	Reply to Thysen et al. Journal of Infectious Diseases, 2015, 212, 1342-1343.	1.9	1
45	Geografiese ligging beÃ¯nvloed vaginale mikrobiese profiele in Suid-Afrikaanse vroue. South African Journal of Science and Technology, 2020, 38, 41-49.	0.1	1
46	A Hydrogel Tissue Model for Evaluation of Triple-antiretroviral Electrospun Fibers as a Microbicide. AIDS Research and Human Retroviruses, 2014, 30, A156-A156.	0.5	0
47	Voices in Molecular Pharmaceutics: Meet Dr. Anna Blakney, an Engineer Who Seeks To Develop the Next Generation of Gene Therapies. Molecular Pharmaceutics, 2022, 19, 1231-1232.	2.3	0