

Alexander S Timin

List of Publications by Year in descending order

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62
papers

1,830
citations

218592

26
h-index

289141

40
g-index

65
all docs

65
docs citations

65
times ranked

2651
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison study between electrospun polycaprolactone and piezoelectric poly(3-hydroxybutyrate-co-3-hydroxyvalerate) scaffolds for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 48-59.	2.5	103
2	Porous Inorganic Carriers Based on Silica, Calcium Carbonate and Calcium Phosphate for Controlled/Modulated Drug Delivery: Fresh Outlook and Future Perspectives. <i>Pharmaceutics</i> , 2018, 10, 167.	2.0	103
3	Efficient gene editing via non-viral delivery of CRISPR-Cas9 system using polymeric and hybrid microcarriers. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 97-108.	1.7	99
4	Multifunctional Scaffolds with Improved Antimicrobial Properties and Osteogenicity Based on Piezoelectric Electrospun Fibers Decorated with Bioactive Composite Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34849-34868.	4.0	79
5	Cell-Based Drug Delivery and Use of Nano and Microcarriers for Cell Functionalization. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700818.	3.9	75
6	Controllable Synthesis of Calcium Carbonate with Different Geometry: Comprehensive Analysis of Particle Formation, Cellular Uptake, and Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19142-19156.	3.2	71
7	Recent Advances of Individual BODIPY and BODIPY-Based Functional Materials in Medical Diagnostics and Treatment. <i>Current Medicinal Chemistry</i> , 2017, 24, 2745-2772.	1.2	66
8	Current outlook on radionuclide delivery systems: from design consideration to translation into clinics. <i>Journal of Nanobiotechnology</i> , 2019, 17, 90.	4.2	65
9	Multi-layer microcapsules: fresh insights and new applications. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 583-587.	2.4	59
10	Biological Kerker Effect Boosts Light Collection Efficiency in Plants. <i>Nano Letters</i> , 2019, 19, 7062-7071.	4.5	59
11	Overcoming the delivery problem for therapeutic genome editing: Current status and perspective of non-viral methods. <i>Biomaterials</i> , 2020, 258, 120282.	5.7	58
12	Inorganic/Organic Multilayer Capsule Composition for Improved Functionality and External Triggering. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600338.	1.9	53
13	Optically responsive delivery platforms: from the design considerations to biomedical applications. <i>Nanophotonics</i> , 2020, 9, 39-74.	2.9	45
14	Safe and Effective Delivery of Antitumor Drug Using Mesenchymal Stem Cells Impregnated with Submicron Carriers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13091-13104.	4.0	43
15	Hybrid inorganic-organic capsules for efficient intracellular delivery of novel siRNAs against influenza A (H1N1) virus infection. <i>Scientific Reports</i> , 2017, 7, 102.	1.6	41
16	Multilayer Capsules Inside Biological Systems: State-of-the-Art and Open Challenges. <i>Langmuir</i> , 2019, 35, 4747-4762.	1.6	40
17	Adhesion, proliferation, and osteogenic differentiation of human mesenchymal stem cells on additively manufactured Ti6Al4V alloy scaffolds modified with calcium phosphate nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 130-139.	2.5	37
18	Synthesis and application of amino-modified silicas containing albumin as hemoadsorbents for bilirubin adsorption. <i>Journal of Non-Crystalline Solids</i> , 2014, 385, 81-88.	1.5	36

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19	Biomimetic drug delivery platforms based on mesenchymal stem cells impregnated with light-responsive submicron sized carriers. <i>Biomaterials Science</i> , 2020, 8, 1137-1147.	2.6	36
20	Comprehensive Characterization of Titania Nanotubes Fabricated on Ti–Nb Alloys: Surface Topography, Structure, Physicomechanical Behavior, and a Cell Culture Assay. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1487-1499.	2.6	35
21	All-Optical Nanoscale Heating and Thermometry with Resonant Dielectric Nanoparticles for Controllable Drug Release in Living Cells. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900082.	4.4	34
22	Development of Optimized Strategies for Growth Factor Incorporation onto Electrospun Fibrous Scaffolds To Promote Prolonged Release. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5578-5592.	4.0	33
23	Mesenchymal Stem Cell Magnetization: Magnetic Multilayer Microcapsule Uptake, Toxicity, Impact on Functional Properties, and Perspectives for Magnetic Delivery. <i>Advanced Healthcare Materials</i> , 2016, 5, 3182-3190.	3.9	30
24	Intracellular Breakable and Ultrasound-Responsive Hybrid Microsized Containers for Selective Drug Release into Cancerous Cells. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600417.	1.2	29
25	Triple-responsive inorganic–organic hybrid microcapsules as a biocompatible smart platform for the delivery of small molecules. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7270-7282.	2.9	28
26	Synthesis and application of silica hybrids grafted with new guanidine-containing polymers as highly effective adsorbents for bilirubin removal. <i>Colloid and Polymer Science</i> , 2015, 293, 1667-1674.	1.0	26
27	Preparation and surface properties of mesoporous silica particles modified with poly(N-vinyl-2-pyrrolidone) as a potential adsorbent for bilirubin removal. <i>Materials Chemistry and Physics</i> , 2014, 147, 673-683.	2.0	24
28	Preparation and characterization of organo-functionalized silicas for bilirubin removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 464, 65-77.	2.3	24
29	Bacteriostatic Effect of Piezoelectric Poly-3-Hydroxybutyrate and Polyvinylidene Fluoride Polymer Films under Ultrasound Treatment. <i>Polymers</i> , 2020, 12, 240.	2.0	22
30	Immobilization of Bovine Serum Albumin onto Porous Poly(vinylpyrrolidone)-Modified Silicas. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13699-13710.	1.8	21
31	Mesenchymal Stem Cells Engineering: Microcapsules-Assisted Gene Transfection and Magnetic Cell Separation. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2314-2324.	2.6	20
32	Halide Perovskite Nanocrystals with Enhanced Water Stability for Upconversion Imaging in a Living Cell. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8991-8998.	2.1	20
33	Application of guanidine-containing polymers for preparation of pH responsive silica-based particles for drug delivery systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 477, 26-34.	2.3	18
34	Radiolabeling Strategies of Micron- and Submicron-Sized Core–Shell Carriers for <i>In Vivo</i> Studies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31137-31147.	4.0	18
35	Intracellular redox induced drug release in cancerous and mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 147, 450-458.	2.5	17
36	Layer-by-Layer technique as a versatile tool for gene delivery applications. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 1047-1066.	2.4	17

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37	Calcium Carbonate Core-Shell Particles for Incorporation of ²²⁵ Ac and Their Application in Local \pm -Radionuclide Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25599-25610.	4.0	17
38	Calcium carbonate carriers for combined chemo- and radionuclide therapy of metastatic lung cancer. <i>Journal of Controlled Release</i> , 2022, 344, 1-11.	4.8	17
39	Magnetic silica hybrids modified with guanidine containing co-polymers for drug delivery applications. <i>Materials Science and Engineering C</i> , 2016, 64, 20-28.	3.8	16
40	Variation in tumor pH affects pH-triggered delivery of peptide-modified magnetic nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 32, 102317.	1.7	16
41	An investigation of calcium carbonate core-shell particles for incorporation of ²²⁵ Ac and sequester of daughter radionuclides: in vitro and in vivo studies. <i>Journal of Controlled Release</i> , 2021, 330, 726-737.	4.8	16
42	Sol-gel synthesis of mesoporous silicas containing albumin and guanidine polymers and its application to the bilirubin adsorption. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 297-303.	1.1	14
43	Polyacrylate guanidine and polymethacrylate guanidine as novel cationic polymers for effective bilirubin binding. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	13
44	Adaptive Nanoparticle-Polymer Complexes as Optical Elements: Design and Application in Nanophotonics and Nanomedicine. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000421.	4.4	13
45	Magnetic polymer-silica composites as bioluminescent sensors for bilirubin detection. <i>Materials Chemistry and Physics</i> , 2016, 183, 422-429.	2.0	12
46	Layer-by-Layer Assembled Capsule Size Affects the Efficiency of Packaging and Delivery of Different Genetic Cargo. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2000228.	1.2	11
47	Microfluidic synthesis of optically responsive materials for nano- and biophotonics. <i>Advances in Colloid and Interface Science</i> , 2021, 298, 102548.	7.0	11
48	Universal Chelator-Free Radiolabeling of Organic and Inorganic-Based Nanocarriers with Diagnostic and Therapeutic Isotopes for Internal Radiotherapy. <i>Chemistry of Materials</i> , 2022, 34, 6593-6605.	3.2	11
49	Inhibition of influenza A virus by mixed siRNAs, targeting the PA, NP, and NS genes, delivered by hybrid microcarriers. <i>Antiviral Research</i> , 2018, 158, 147-160.	1.9	10
50	Real-Time Temperature Monitoring of Photoinduced Cargo Release inside Living Cells Using Hybrid Capsules Decorated with Gold Nanoparticles and Fluorescent Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36737-36746.	4.0	10
51	Characterization and evaluation of silica particles coated by PVP and albumin for effective bilirubin removal. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 187-198.	1.1	8
52	DDAO Controlled Synthesis of Organo-Modified Silica Nanoparticles with Encapsulated Fluorescent Boron Dipyrins and Study of Their Uptake by Cancerous Cells. <i>Molecules</i> , 2020, 25, 3802.	1.7	8
53	Boosting transfection efficiency: A systematic study using layer-by-layer based gene delivery platform. <i>Materials Science and Engineering C</i> , 2021, 126, 112161.	3.8	7
54	Incorporation of Perovskite Nanocrystals into Polymer Matrix for Enhanced Stability in Biological Media: <i>In Vitro</i> and <i>In Vivo</i> Studies. <i>ACS Applied Bio Materials</i> , 2022, 5, 2411-2420.	2.3	6

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55	Silver-Silica Nanocomposite Materials Incorporated into Textile Fabrics: Chemical and Biological Study. <i>BioNanoScience</i> , 2013, 3, 415-422.	1.5	5
56	Novel biocide multifunctional materials based on mesoporous silicas modified by treatment with guanidine polymers or mercaptopropyltrimethoxysilane: synthesis, characterization, and applications. <i>Research on Chemical Intermediates</i> , 2015, 41, 2437-2451.	1.3	5
57	Impact of metallic coating on the retention of ²²⁵ Ac and its daughters within core-shell nanocarriers. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2571-2583.	5.0	5
58	Analysis of binding ability of two tetramethylpyridylporphyrins to albumin and its complex with bilirubin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 168, 12-20.	2.0	4
59	Biodegradable particles for protein delivery: Estimation of the release kinetics inside cells. , 2022, 139, 212966.		2
60	Preclinical studies of automated radiolabeled microcarriers for radiosynovectomy of inflammatory joint disease. <i>Applied Materials Today</i> , 2022, 29, 101571.	2.3	2
61	Toxicological Analysis of Hepatocytes Using FLIM Technique: In Vitro versus Ex Vivo Models. <i>Cells</i> , 2021, 10, 2894.	1.8	1
62	Development of effective strategies for the radionuclide incorporation into CaCO ₃ particles for in vivo studies. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1