Christoph Alexiou

List of Publications by Year in descending order

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117625 98798 5,260 125 34 67 citations h-index g-index papers 125 125 125 6814 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
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| 1 | Intranasal delivery of nanoparticles. Nanomedicine, 2022, , . | 3.3 | O |
| 2 | Scavenging of bacteria or bacterial products by magnetic particles functionalized with a broad-spectrum pathogen recognition receptor motif offers diagnostic and therapeutic applications. Acta Biomaterialia, 2022, 141, 418-428. | 8.3 | 11 |
| 3 | Intracellular Amplifiers of Reactive Oxygen Species Affecting Mitochondria as Radiosensitizers. Cancers, 2022, 14, 208. | 3.7 | 5 |
| 4 | SPION based nanoformulations: bio-inspired design and functionalization strategies for applications in medicine. Precision Nanomedicine, 2022, 5, . | 0.8 | 0 |
| 5 | Extramedullary plasmacytoma: Tumor occurrence and therapeutic concepts—A followâ€up. Cancer Medicine, 2022, 11, 4743-4755. | 2.8 | 16 |
| 6 | A Printâ€andâ€Fuse Strategy for Sacrificial Filaments Enables Biomimetically Structured Perfusable Microvascular Networks with Functional Endothelium Inside 3D Hydrogels. Advanced Materials, 2022, 34, . | 21.0 | 24 |
| 7 | Cardiovascular applications of magnetic particles. Journal of Magnetism and Magnetic Materials, 2021, 518, 167428. | 2.3 | 14 |
| 8 | Negatively charged magnetic nanoparticles pass the blood-placenta barrier under continuous flow conditions in a time-dependent manner. Journal of Magnetism and Magnetic Materials, 2021, 521, 167535. | 2.3 | 5 |
| 9 | Nanomedicine for vaccination and diagnosis of diseases. Nanomedicine, 2021, 16, 165-169. | 3.3 | 0 |
| 10 | Differential Responses to Bioink-Induced Oxidative Stress in Endothelial Cells and Fibroblasts. International Journal of Molecular Sciences, 2021, 22, 2358. | 4.1 | 12 |
| 11 | Cellular SPION Uptake and Toxicity in Various Head and Neck Cancer Cell Lines. Nanomaterials, 2021, 11, 726. | 4.1 | 14 |
| 12 | An Endoplasmic Reticulum Specific Proâ€amplifier of Reactive Oxygen Species in Cancer Cells. Angewandte Chemie - International Edition, 2021, 60, 11158-11162. | 13.8 | 34 |
| 13 | Contactless Nanoparticle-Based Guiding of Cells by Controllable Magnetic Fields. Nanotechnology, Science and Applications, 2021, Volume 14, 91-100. | 4.6 | 14 |
| 14 | Hydroxyapatite-Coated SPIONs and Their Influence on Cytokine Release. International Journal of Molecular Sciences, 2021, 22, 4143. | 4.1 | 7 |
| 15 | The remediation of nano-/microplastics from water. Materials Today, 2021, 48, 38-46. | 14.2 | 56 |
| 16 | Citrate-Coated Superparamagnetic Iron Oxide Nanoparticles Enable a Stable Non-Spilling Loading of T Cells and Their Magnetic Accumulation. Cancers, 2021, 13, 4143. | 3.7 | 11 |
| 17 | Modulation of immune responses by nanoparticles. Nanomedicine, 2021, 16, 1925-1929. | 3.3 | 1 |
| 18 | Iron Oxide Nanoparticles in Regenerative Medicine and Tissue Engineering. Nanomaterials, 2021, 11, 2337. | 4.1 | 48 |

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| 19 | Mitoxantrone-Loaded Nanoparticles for Magnetically Controlled Tumor Therapy–Induction of Tumor Cell Death, Release of Danger Signals and Activation of Immune Cells. Pharmaceutics, 2020, 12, 923. | 4.5 | 6 |
| 20 | Neutrophil Extracellular Traps Promote the Development and Growth of Human Salivary Stones. Cells, 2020, 9, 2139. | 4.1 | 24 |
| 21 | Synthesis and Characterization of Citrate-Stabilized Gold-Coated Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications. Molecules, 2020, 25, 4425. | 3.8 | 17 |
| 22 | Brave new world revisited: Focus on nanomedicine. Biochemical and Biophysical Research Communications, 2020, 533, 36-49. | 2.1 | 18 |
| 23 | <p>Intracellular Quantification and Localization of Label-Free Iron Oxide Nanoparticles by Holotomographic Microscopy</p> . Nanotechnology, Science and Applications, 2020, Volume 13, 119-130. | 4.6 | 11 |
| 24 | Anticancer Effect of an Electronically Coupled Oligoferrocene. Organometallics, 2020, 39, 3112-3120. | 2.3 | 8 |
| 25 | Superparamagnetic Iron Oxide Nanoparticles Carrying Chemotherapeutics Improve Drug Efficacy in Monolayer and Spheroid Cell Culture by Enabling Active Accumulation. Nanomaterials, 2020, 10, 1577. | 4.1 | 13 |
| 26 | Nanomedicine for infectious diseases. Nanomedicine, 2020, 15, 1263-1267. | 3.3 | 2 |
| 27 | Optimization of cell seeding on electrospun PCL-silk fibroin scaffolds. European Polymer Journal, 2020, 134, 109838. | 5.4 | 21 |
| 28 | Shedding Light on Metalâ€Based Nanoparticles in Zebrafish by Computed Tomography with Micrometer Resolution. Small, 2020, 16, e2000746. | 10.0 | 11 |
| 29 | N-Alkylaminoferrocene-Based Prodrugs Targeting Mitochondria of Cancer Cells. Molecules, 2020, 25, 2545. | 3.8 | 16 |
| 30 | Graphene Oxide Nanosheets for Localized Hyperthermiaâ€"Physicochemical Characterization, Biocompatibility, and Induction of Tumor Cell Death. Cells, 2020, 9, 776. | 4.1 | 16 |
| 31 | Small Dimension—Big Impact! Nanoparticle-Enhanced Non-Invasive and Intravascular Molecular Imaging of Atherosclerosis In Vivo. Molecules, 2020, 25, 1029. | 3.8 | 9 |
| 32 | Loading of Primary Human T Lymphocytes with Citrate-Coated Superparamagnetic Iron Oxide Nanoparticles Does Not Impair Their Activation after Polyclonal Stimulation. Cells, 2020, 9, 342. | 4.1 | 14 |
| 33 | Comparative Evaluation of a New Sensor for Superparamagnetic Iron Oxide Nanoparticles in a Molecular Communication Setting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 303-316. | 0.3 | 10 |
| 34 | Cellular effects of paclitaxel-loaded iron oxide nanoparticles on breast cancer using different 2D and 3D cell culture models. International Journal of Nanomedicine, 2019, Volume 14, 161-180. | 6.7 | 35 |
| 35 | Nanoparticles for regenerative medicine. Nanomedicine, 2019, 14, 1929-1933. | 3.3 | 12 |
| 36 | Magnetic Accumulation of SPIONs under Arterial Flow Conditions: Effect of Serum and Red Blood Cells. Molecules, 2019, 24, 2588. | 3.8 | 12 |

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| 37 | <p>Functionalization Of T Lymphocytes With Citrate-Coated Superparamagnetic Iron Oxide Nanoparticles For Magnetically Controlled Immune Therapy</p> . International Journal of Nanomedicine, 2019, Volume 14, 8421-8432. | 6.7 | 46 |
| 38 | Nanomedicine for neuroprotection. Nanomedicine, 2019, 14, 127-130. | 3.3 | 3 |
| 39 | Functionalized Superparamagnetic Iron Oxide Nanoparticles (SPIONs) as Platform for the Targeted Multimodal Tumor Therapy. Frontiers in Oncology, 2019, 9, 59. | 2.8 | 69 |
| 40 | Magnetically responsive composites: electron beam assisted magnetic nanoparticle arrest in gelatin hydrogels for bioactuation. Physical Chemistry Chemical Physics, 2019, 21, 14654-14662. | 2.8 | 14 |
| 41 | Non-magnetic chromatographic separation of colloidally metastable superparamagnetic iron oxide nanoparticles and suspension cells. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1122-1123, 83-89. | 2.3 | 5 |
| 42 | Magnetic Nanoparticle-Based Molecular Communication in Microfluidic Environments. IEEE Transactions on Nanobioscience, 2019, 18, 156-169. | 3.3 | 18 |
| 43 | Magnetic Tissue Engineering of the Vocal Fold Using Superparamagnetic Iron Oxide Nanoparticles. Tissue Engineering - Part A, 2019, 25, 1470-1477. | 3.1 | 20 |
| 44 | Nanomedicine for cardiovascular disorders. Nanomedicine, 2019, 14, 3007-3012. | 3.3 | 8 |
| 45 | SPIONs functionalized with small peptides for binding of lipopolysaccharide, a pathophysiologically relevant microbial product. Colloids and Surfaces B: Biointerfaces, 2019, 174, 95-102. | 5.0 | 6 |
| 46 | Contact Guidance by Microstructured Gelatin Hydrogels for Prospective Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2019, 11, 7450-7458. | 8.0 | 17 |
| 47 | Functionalization of T lymphocytes for magnetically controlled immune therapy: Selection of suitable superparamagnetic iron oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 473, 61-67. | 2.3 | 28 |
| 48 | Novel Receiver for Superparamagnetic Iron Oxide Nanoparticles in a Molecular Communication Setting. , 2019, , . | | 14 |
| 49 | Magnetic Steering of Superparamagnetic Nanoparticles in Duct Flow for Molecular Communication: A Feasibility Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 161-174. | 0.3 | 3 |
| 50 | Studies on the adsorption and desorption of mitoxantrone to lauric acid/albumin coated iron oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2018, 161, 18-26. | 5.0 | 21 |
| 51 | Pedicled Transplantation of Axially Vascularized Bone Constructs in a Critical Size Femoral Defect. Tissue Engineering - Part A, 2018, 24, 479-492. | 3.1 | 23 |
| 52 | Tuning the structure of aminoferrocene-based anticancer prodrugs to prevent their aggregation in aqueous solution. Journal of Inorganic Biochemistry, 2018, 178, 9-17. | 3.5 | 30 |
| 53 | Drug delivery to atherosclerotic plaques using superparamagnetic iron oxide nanoparticles. International Journal of Nanomedicine, 2018, Volume 13, 8443-8460. | 6.7 | 32 |
| 54 | Comparative analysis of nanosystems' effects on human endothelial and monocytic cell functions. Nanotoxicology, 2018, 12, 957-974. | 3.0 | 6 |

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| 55 | Inert Coats of Magnetic Nanoparticles Prevent Formation of Occlusive Intravascular Co-aggregates With Neutrophil Extracellular Traps. Frontiers in Immunology, 2018, 9, 2266. | 4.8 | 29 |
| 56 | Experimental Molecular Communication Testbed Based on Magnetic Nanoparticles in Duct Flow. , 2018, , . | | 63 |
| 57 | From design to the clinic: practical guidelines for translating cardiovascular nanomedicine. Cardiovascular Research, 2018, 114, 1714-1727. | 3.8 | 63 |
| 58 | Molecular communication using magnetic nanoparticles. , 2018, , . | | 16 |
| 59 | Targeting of drug-loaded nanoparticles to tumor sites increases cell death and release of danger signals. Journal of Controlled Release, 2018, 285, 67-80. | 9.9 | 19 |
| 60 | ROSâ€Responsive Nâ€Alkylaminoferrocenes for Cancerâ€Cellâ€Specific Targeting of Mitochondria. Angewandte Chemie - International Edition, 2018, 57, 11943-11946. | 13.8 | 74 |
| 61 | Dextran-coated superparamagnetic iron oxide nanoparticles for magnetic resonance imaging: evaluation of size-dependent imaging properties, storage stability and safety. International Journal of Nanomedicine, 2018, Volume 13, 1899-1915. | 6.7 | 105 |
| 62 | Surface Modification of SPIONs in PHBV Microspheres for Biomedical Applications. Scientific Reports, 2018, 8, 7286. | 3.3 | 26 |
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| 64 | A novel human artery model to assess the magnetic accumulation of SPIONs under flow conditions. Scientific Reports, 2017, 7, 42314. | 3.3 | 16 |
| 65 | Impact of Superparamagnetic Iron Oxide Nanoparticles on Vocal Fold Fibroblasts: Cell Behavior and Cellular Iron Kinetics. Nanoscale Research Letters, 2017, 12, 284. | 5.7 | 10 |
| 66 | Biofabrication of vessel grafts based on natural hydrogels. Current Opinion in Biomedical Engineering, 2017, 2, 83-89. | 3.4 | 16 |
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| 68 | Magnetic nanoparticles for medical applications. Nanomedicine, 2017, 12, 825-829. | 3.3 | 2 |
| 69 | Nanoparticles for radiooncology: Mission, vision, challenges. Biomaterials, 2017, 120, 155-184. | 11.4 | 87 |
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| 74 | Synthesis of Magneticâ€Nanoparticle/Ansamitocin Conjugates—Inductive Heating Leads to Decreased Cell Proliferation In Vitro and Attenuation Of Tumour Growth In Vivo. Chemistry - A European Journal, 2017, 23, 12326-12337. | 3.3 | 13 |
| 75 | Macromolecular interactions in alginate–gelatin hydrogels regulate the behavior of human fibroblasts. Journal of Bioactive and Compatible Polymers, 2017, 32, 309-324. | 2.1 | 34 |
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| 79 | Synthesis and Characterization of Tissue Plasminogen Activator—Functionalized Superparamagnetic Iron Oxide Nanoparticles for Targeted Fibrin Clot Dissolution. International Journal of Molecular Sciences, 2017, 18, 1837. | 4.1 | 29 |
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| 81 | Biomechanical simulation of vocal fold dynamics in adults based on laryngeal high-speed videoendoscopy. PLoS ONE, 2017, 12, e0187486. | 2.5 | 23 |
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| 91 | Hypericin-bearing magnetic iron oxide nanoparticles for selective drug delivery in photodynamic therapy. International Journal of Nanomedicine, 2015, 10, 6985. | 6.7 | 46 |
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| 102 | 3-Dimensional quantitative detection of nanoparticle content in biological tissue samples after local cancer treatment. Journal of Magnetism and Magnetic Materials, 2014, 360, 92-97. | 2.3 | 8 |
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| 106 | Cancer research by means of tissue engineering – is there a rationale?. Journal of Cellular and Molecular Medicine, 2013, 17, 1197-1206. | 3.6 | 47 |
| 107 | Efficient drug-delivery using magnetic nanoparticles $\hat{a}\in$ " biodistribution and therapeutic effects in tumour bearing rabbits. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 961-971. | 3.3 | 186 |
| 108 | Nanomedicine in diagnostics and therapy of cardiovascular diseases: beyond atherosclerotic plaque imaging. Nanotechnology Reviews, 2013, 2, 449-472. | 5.8 | 19 |

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| 110 | Imaging modalities using magnetic nanoparticles – overview of the developments in recent years. Nanotechnology Reviews, 2013, 2, 381-394. | 5.8 | 6 |
| 111 | Nanoparticles for cancer therapy using magnetic forces. Nanomedicine, 2012, 7, 447-457. | 3.3 | 77 |
| 112 | Visualization of superparamagnetic nanoparticles in vascular tissue using \hat{X}_{4} CT and histology. Histochemistry and Cell Biology, 2011, 135, 153-158. | 1.7 | 42 |
| 113 | Cancer therapy with drug loaded magnetic nanoparticlesâ€"magnetic drug targeting. Journal of Magnetism and Magnetic Materials, 2011, 323, 1404-1407. | 2.3 | 110 |
| 114 | Mitoxantrone Loaded Superparamagnetic Nanoparticles for Drug Targeting: A Versatile and Sensitive Method for Quantification of Drug Enrichment in Rabbit Tissues Using HPLC-UV. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-8. | 3.0 | 20 |
| 115 | Quantification of drug-loaded magnetic nanoparticles in rabbit liver and tumor after in vivo administration. Journal of Magnetism and Magnetic Materials, 2009, 321, 1465-1468. | 2.3 | 43 |
| 116 | Tomographic examination of magnetic nanoparticles used as drug carriers. Journal of Magnetism and Magnetic Materials, 2009, 321, 1517-1520. | 2.3 | 11 |
| 117 | Design and Evaluation of Magnetic Fields for Nanoparticle Drug Targeting in Cancer. IEEE Nanotechnology Magazine, 2007, 6, 164-170. | 2.0 | 56 |
| 118 | In vitro investigation of the behaviour of magnetic particles by a circulating artery model. Journal of Magnetism and Magnetic Materials, 2007, 311, 358-362. | 2.3 | 48 |
| 119 | Distribution of Mitoxantrone after Magnetic Drug Targeting: Fluorescence Microscopic Investigations on VX2 Squamous Cell Carcinoma Cells. Zeitschrift Fur Physikalische Chemie, 2006, 220, 235-240. | 2.8 | 5 |
| 120 | Targeting cancer cells: magnetic nanoparticles as drug carriers. European Biophysics Journal, 2006, 35, 446-450. | 2.2 | 327 |
| 121 | In vitro and in vivo investigations of targeted chemotherapy with magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2005, 293, 389-393. | 2.3 | 163 |
| 122 | Magnetic Drug Targeting-Biodistribution of the Magnetic Carrier and the Chemotherapeutic agent Mitoxantrone after Locoregional Cancer Treatment. Journal of Drug Targeting, 2003, 11, 139-149. | 4.4 | 109 |
| 123 | Clinical Applications of Magnetic Drug Targeting. Journal of Surgical Research, 2001, 95, 200-206. | 1.6 | 761 |
| 124 | Magnetic mitoxantrone nanoparticle detection by histology, X-ray and MRI after magnetic tumor targeting. Journal of Magnetism and Magnetic Materials, 2001, 225, 187-193. | 2.3 | 134 |
| 125 | Optical Microscopy Systems for the Detection of Unlabeled Nanoparticles. International Journal of Nanomedicine, 0, Volume 17, 2139-2163. | 6.7 | 3 |