

# Damien Mertz

## List of Publications by Year in descending order

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54  
papers

1,791  
citations

304602

22  
h-index

276775

41  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2927  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of iron oxide-based nanoparticles for MRI and magnetic hyperthermia. <i>Nanomedicine</i> , 2016, 11, 1889-1910.	1.7	221
2	Polyol synthesis, functionalisation, and biocompatibility studies of superparamagnetic iron oxide nanoparticles as potential MRI contrast agents. <i>Nanoscale</i> , 2016, 8, 3278-3287.	2.8	173
3	Mechanotransductive surfaces for reversible biocatalysis activation. <i>Nature Materials</i> , 2009, 8, 731-735.	13.3	122
4	Drug releasing nanoplatfoms activated by alternating magnetic fields. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1617-1641.	1.1	84
5	Doxorubicin-Loaded Thermoresponsive Superparamagnetic Nanocarriers for Controlled Drug Delivery and Magnetic Hyperthermia Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30610-30620.	4.0	75
6	Unravelling the Thermal Decomposition Parameters for The Synthesis of Anisotropic Iron Oxide Nanoparticles. <i>Nanomaterials</i> , 2018, 8, 881.	1.9	64
7	Mechanically Responding Nanovalves Based on Polyelectrolyte Multilayers. <i>Nano Letters</i> , 2007, 7, 657-662.	4.5	52
8	Protein Capsules Assembled <i>via</i> Isobutyramide Grafts: Sequential Growth, Biofunctionalization, and Cellular Uptake. <i>ACS Nano</i> , 2012, 6, 7584-7594.	7.3	50
9	ATRP-mediated continuous assembly of polymers for the preparation of nanoscale films. <i>Chemical Communications</i> , 2011, 47, 12601.	2.2	46
10	Ultrathin, bioresponsive and drug-functionalized protein capsules. <i>Journal of Materials Chemistry</i> , 2012, 22, 21434.	6.7	46
11	Nanoengineered Films via Surface-Confined Continuous Assembly of Polymers. <i>Small</i> , 2011, 7, 2863-2867.	5.2	43
12	Bromo <i>iso</i> butyramide as an Intermolecular Surface Binder for the Preparation of Free-Standing Biopolymer Assemblies. <i>Advanced Materials</i> , 2011, 23, 5668-5673.	11.1	42
13	Polyelectrolyte multilayer films under mechanical stretch. <i>Soft Matter</i> , 2007, 3, 1413.	1.2	40
14	Stretch-Induced Biodegradation of Polyelectrolyte Multilayer Films for Drug Release. <i>Langmuir</i> , 2012, 28, 13550-13554.	1.6	37
15	Engineering of Mesoporous Silica Coated Carbon-Based Materials Optimized for an Ultrahigh Doxorubicin Payload and a Drug Release Activated by pH, <i>T</i> , and NIR light. <i>Advanced Functional Materials</i> , 2018, 28, 1706996.	7.8	36
16	Fluorescent and magnetic stellate mesoporous silica for bimodal imaging and magnetic hyperthermia. <i>Applied Materials Today</i> , 2019, 16, 301-314.	2.3	36
17	Iron Oxide Nanoparticles for Biomedical Applications: Synthesis, Functionalization, and Application. , 2018, , 43-88.		33
18	Elaboration of Superparamagnetic and Bioactive Multicore-Shell Nanoparticles ( $\text{Fe}_2\text{O}_3 @ \text{SiO}_2\text{-CaO}$ ): A Promising Material for Bone Cancer Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47820-47830.	4.0	33

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19	Small iron oxide nanoparticles as MRI contrast agent: scalable inexpensive water-based synthesis using a flow reactor. <i>Nanoscale</i> , 2021, 13, 8795-8805.	2.8	32
20	Templated assembly of albumin-based nanoparticles for simultaneous gene silencing and magnetic resonance imaging. <i>Nanoscale</i> , 2014, 6, 11676-11680.	2.8	31
21	Polyelectrolyte multilayer coatings that resist protein adsorption at rest and under stretching. <i>Journal of Materials Chemistry</i> , 2008, 18, 4242.	6.7	30
22	Nanocomposite Polymer Scaffolds Responding under External Stimuli for Drug Delivery and Tissue Engineering Applications. <i>Advanced Therapeutics</i> , 2020, 3, 1900143.	1.6	28
23	Near infra-red light responsive carbon nanotubes@mesoporous silica for photothermia and drug delivery to cancer cells. <i>Materials Today Chemistry</i> , 2020, 17, 100308.	1.7	23
24	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. <i>Nanoscale</i> , 2021, 13, 14552-14571.	2.8	23
25	Evaluating the Critical Roles of Precursor Nature and Water Content When Tailoring Magnetic Nanoparticles for Specific Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 4306-4316.	2.4	22
26	Design of hybrid protein-coated magnetic core-mesoporous silica shell nanocomposites for MRI and drug release assessed in a 3D tumor cell model. <i>Nanotechnology</i> , 2019, 30, 174001.	1.3	22
27	Design and applications of protein delivery systems in nanomedicine and tissue engineering. <i>Advances in Colloid and Interface Science</i> , 2021, 287, 102334.	7.0	21
28	Mesoporous silica templated-albumin nanoparticles with high doxorubicin payload for drug delivery assessed with a 3-D tumor cell model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 332-341.	1.1	19
29	Magnetite- and Iodine-Containing Nanoemulsion as a Dual Modal Contrast Agent for X-ray/Magnetic Resonance Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 403-416.	4.0	19
30	Highly chelating stellate mesoporous silica nanoparticles for specific iron removal from biological media. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 140-151.	5.0	19
31	Orienting the Pore Morphology of Core-Shell Magnetic Mesoporous Silica with the Sol-Gel Temperature. Influence on MRI and Magnetic Hyperthermia Properties. <i>Molecules</i> , 2021, 26, 971.	1.7	19
32	Wrapped stellate silica nanocomposites as biocompatible luminescent nanoplatforms assessed in vivo. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 469-482.	5.0	18
33	Layer-by-Layer Enzymatic Platform for Stretched-Induced Reactive Release. <i>ACS Macro Letters</i> , 2012, 1, 797-801.	2.3	16
34	Guideline to atomically flat TiO <sub>2</sub> -terminated SrTiO <sub>3</sub> (001) surfaces. <i>Surface Science</i> , 2018, 677, 39-45.	0.8	16
35	Dendron based antifouling, MRI and magnetic hyperthermia properties of different shaped iron oxide nanoparticles. <i>Nanotechnology</i> , 2019, 30, 374002.	1.3	16
36	Harnessing Composition of Iron Oxide Nanoparticle: Impact of Solvent-Mediated Ligand-Ligand Interaction and Competition between Oxidation and Growth Kinetics. <i>Chemistry of Materials</i> , 2020, 32, 9245-9259.	3.2	15

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37	Tailored design of mechanically sensitive biocatalytic assemblies based on polyelectrolyte multilayers. <i>Journal of Materials Chemistry</i> , 2011, 21, 8324.	6.7	14
38	Improving Echo-Guided Procedures Using an Ultrasound-CT Image Fusion System. <i>Surgical Innovation</i> , 2015, 22, 217-222.	0.4	14
39	Iron Stearate Structures: An Original Tool for Nanoparticles Design. <i>Inorganic Chemistry</i> , 2021, 60, 12445-12456.	1.9	14
40	Peptide Hydrogels Assembled from Enzyme-Adsorbed Mesoporous Silica Nanostructures for Thermoresponsive Doxorubicin Release. <i>ACS Applied Nano Materials</i> , 2022, 5, 120-125.	2.4	14
41	Optimizing the silanization of thermally-decomposed iron oxide nanoparticles for efficient aqueous phase transfer and MRI applications. <i>RSC Advances</i> , 2016, 6, 93784-93793.	1.7	13
42	Design of Anisotropic Iron-Oxide-Based Nanoparticles for Magnetic Hyperthermia. , 2019, , 41-60.		12
43	Design of Protein-Coated Carbon Nanotubes Loaded with Hydrophobic Drugs through Sacrificial Templating of Mesoporous Silica Shells. <i>Chemistry - A European Journal</i> , 2018, 24, 4662-4670.	1.7	11
44	Core-shell iron oxide@stellate mesoporous silica for combined near-infrared photothermia and drug delivery: Influence of pH and surface chemistry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128407.	2.3	11
45	Phosphate glasses containing monodisperse Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> stellate nanoparticles obtained by melt-quenching process. <i>Ceramics International</i> , 2020, 46, 12120-12127.	2.3	10
46	Structural impact of carbon nanofibers/few-layer-graphene substrate decorated with Ni for CO <sub>2</sub> methanation via inductive heating. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120589.	10.8	9
47	New insights on the formation of gold nanoparticles and Pluronic nanocomposites: Kinetics and thermodynamics parameters. <i>Journal of Molecular Liquids</i> , 2018, 268, 181-189.	2.3	6
48	Tracking the immune response by MRI using biodegradable and ultrasensitive microprobes. <i>Science Advances</i> , 2022, 8, .	4.7	6
49	Serum Albumin Antifouling Effects of Hydroxypropyl-Cellulose and Pluronic F127 Adsorbed on Isobutyramide-Grafted Stellate Silica Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4799-4805.	1.0	5
50	Near-infrared responsive nanocomposite hydrogels made from enzyme-coated carbon nanotubes@large pore mesoporous silica for remotely triggered drug delivery. <i>Materialia</i> , 2022, 22, 101414.	1.3	5
51	A Confinement-Driven Nucleation Mechanism of Metal Oxide Nanoparticles Obtained via Thermal Decomposition in Organic Media. <i>Small</i> , 2022, 18, e2200414.	5.2	5
52	Chapter 4. Iron-oxide Nanoparticle-based Contrast Agents. <i>New Developments in NMR</i> , 2017, , 318-447.	0.1	4
53	Magnetic bioactive glass nano-heterostructures: a deeper insight into magnetic hyperthermia properties in the scope of bone cancer treatment. <i>Biomaterials Science</i> , 2022, 10, 3993-4007.	2.6	3
54	One pot synthesis of dithiolane dendron functionalized gold nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4286.	1.0	0