

Christoph M Schumacher

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

620
citations

567281

15
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

1095
citing authors

#	ARTICLE	IF	CITATIONS
1	A Soft Total Artificial Heartâ€”First Concept Evaluation on a Hybrid Mock Circulation. <i>Artificial Organs</i> , 2017, 41, 948-958.	1.9	67
2	<i>In vivo</i> risk evaluation of carbon-coated iron carbide nanoparticles based on short- and long-term exposure scenarios. <i>Nanomedicine</i> , 2016, 11, 783-796.	3.3	17
3	Contrast Agent Incorporation into Silicone Enables Realâ€”Time Flowâ€”Structure Analysis of Mammalian Veinâ€”Inspired Soft Pumps. <i>Advanced Functional Materials</i> , 2015, 25, 2129-2137.	14.9	12
4	Adsorption and separation of amyloid beta aggregates using ferromagnetic nanoparticles coated with charged polymer brushes. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3351-3357.	5.8	7
5	Uptake of ferromagnetic carbon-encapsulated metal nanoparticles in endothelial cells: influence of shear stress and endothelial activation. <i>Nanomedicine</i> , 2015, 10, 3537-3546.	3.3	6
6	An Untethered, Jumping Roly-Poly Soft Robot Driven by Combustion. <i>Soft Robotics</i> , 2015, 2, 33-41.	8.0	87
7	Template-Particle Stabilized Bicontinuous Emulsion Yielding Controlled Assembly of Hierarchical High-Flux Filtration Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 611-617.	8.0	22
8	Limestone nanoparticles as nanopore templates in polymer membranes: narrow pore size distribution and use as self-wetting dialysis membranes. <i>RSC Advances</i> , 2014, 4, 61420-61426.	3.6	16
9	Roll-to-Roll Preparation of Mesoporous Membranes by Nanoparticle Template Removal. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9214-9220.	3.7	24
10	3D printed lost-wax casted soft silicone monoblocks enable heart-inspired pumping by internal combustion. <i>RSC Advances</i> , 2014, 4, 16039-16042.	3.6	43
11	Characterization of carbon-coated magnetic nanoparticles using clinical blood coagulation assays: effect of PEG-functionalization and comparison to silica nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3753-3758.	5.8	18
12	Design, Performance and Reinforcement of Bearing-Free Soft Silicone Combustion-Driven Pumps. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12519-12526.	3.7	25
13	Micro Mirror Polymer Composite Offers Mechanically Switchable Light Transmittance. <i>Advanced Engineering Materials</i> , 2014, 16, 878-883.	3.5	5
14	Purification of NaYF ₄ -Based Upconversion Phosphors. <i>Chemistry of Materials</i> , 2014, 26, 2015-2020.	6.7	18
15	Soft Iron/Silicon Composite Tubes for Magnetic Peristaltic Pumping: Frequencyâ€”Dependent Pressure and Volume Flow. <i>Advanced Functional Materials</i> , 2013, 23, 3845-3849.	14.9	69
16	Nanomagnet-based removal of lead and digoxin from living rats. <i>Nanoscale</i> , 2013, 5, 8718.	5.6	42
17	Quantitative Recovery of Magnetic Nanoparticles from Flowing Blood: Trace Analysis and the Role of Magnetization. <i>Advanced Functional Materials</i> , 2013, 23, 4888-4896.	14.9	23
18	Nanoparticles: Endotoxin Removal by Magnetic Separationâ€”Based Blood Purification (<i>Adv. Healthcare</i>) Tj ETQq0 0,0,rgBT /Oylock 10	7.6	1

#	ARTICLE	IF	CITATIONS
19	Endotoxin Removal by Magnetic Separation-Based Blood Purification. <i>Advanced Healthcare Materials</i> , 2013, 2, 829-835.	7.6	46
20	Rapid Surface-Biostructure Interaction Analysis Using Strong Metal-Based Nanomagnets. <i>Langmuir</i> , 2013, 29, 14117-14123.	3.5	2
21	Nanoparticle-Assisted, Catalytic Etching of Carbon Surfaces as a Method to Manufacture Nanogrooves. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13693-13698.	3.1	8
22	Large-Scale Synthesis of PbS-TiO ₂ Heterojunction Nanoparticles in a Single Step for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16264-16270.	3.1	49
23	Physical Defect Formation in Few Layer Graphene-like Carbon on Metals: Influence of Temperature, Acidity, and Chemical Functionalization. <i>Langmuir</i> , 2012, 28, 4565-4572.	3.5	13