

Philipp Seib

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47 papers	2,028 citations	23 h-index	45 g-index
52 ext. papers	2,453 ext. citations	7.4 avg, IF	5.46 L-index

#	Paper	IF	Citations
47	Investigation of chip formation mechanism in ultra-precision diamond turning of silk fibroin film. <i>Journal of Manufacturing Processes</i> , 2022 , 74, 14-27	5	0
46	Mixing and flow-induced nanoprecipitation for morphology control of silk fibroin self-assembly.. <i>RSC Advances</i> , 2022 , 12, 7357-7373	3.7	0
45	Impact of silk hydrogel secondary structure on hydrogel formation, silk leaching and in vitro response.. <i>Scientific Reports</i> , 2022 , 12, 3729	4.9	0
44	Emerging Silk Material Trends: Repurposing, Phase Separation and Solution-Based Designs. <i>Materials</i> , 2021 , 14,	3.5	3
43	Silk Hydrogel Substrate Stress Relaxation Primes Mesenchymal Stem Cell Behavior in 2D. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30420-30433	9.5	4
42	The innate immune response of self-assembling silk fibroin hydrogels. <i>Biomaterials Science</i> , 2021 , 9, 7194-7204	4.7	4
41	Focal drug administration via heparin-containing cryogel microcarriers reduces cancer growth and metastasis. <i>Carbohydrate Polymers</i> , 2020 , 245, 116504	10.3	9
40	Silk Nanoparticle Manufacture in Semi-Batch Format. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6748-6759	5.5	4
39	Manual Versus Microfluidic-Assisted Nanoparticle Manufacture: Impact of Silk Fibroin Stock on Nanoparticle Characteristics. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2796-2804	5.5	11
38	Microfluidic-assisted silk nanoparticle tuning. <i>Nanoscale Advances</i> , 2019 , 1, 873-883	5.1	14
37	PEGylation-Dependent Metabolic Rewiring of Macrophages with Silk Fibroin Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14515-14525	9.5	20
36	Unraveling the Impact of High-Order Silk Structures on Molecular Drug Binding and Release Behaviors. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4278-4284	6.4	4
35	The Biomedical Use of Silk: Past, Present, Future. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1800465	10.1	299
34	In Vivo Evaluation of Engineered Self-Assembling Silk Fibroin Hydrogels after Intracerebral Injection in a Rat Stroke Model. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 859-869	5.5	21
33	Degradation Behavior of Silk Nanoparticles-Enzyme Responsiveness. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 942-951	5.5	44
32	Reverse-engineered silk hydrogels for cell and drug delivery. <i>Therapeutic Delivery</i> , 2018 , 9, 469-487	3.8	21
31	Impact of the hypoxic phenotype on the uptake and efflux of nanoparticles by human breast cancer cells. <i>Scientific Reports</i> , 2018 , 8, 12318	4.9	14

30	Self-assembling hydrogels from reverse-engineered silk 2018 , 27-47		3
29	Silk Hydrogels for Drug and Cell Delivery 2018 , 208-227		3
28	A Review of the Emerging Role of Silk for the Treatment of the Eye. <i>Pharmaceutical Research</i> , 2018 , 35, 248	4.5	23
27	In vitro studies on space-conforming self-assembling silk hydrogels as a mesenchymal stem cell-support matrix suitable for minimally invasive brain application. <i>Scientific Reports</i> , 2018 , 8, 13655	4.9	19
26	Metabolic Reprogramming of Macrophages Exposed to Silk, Poly(lactic-co-glycolic acid), and Silica Nanoparticles. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601240	10.1	30
25	Biocompatibility assessment of silk nanoparticles: hemocompatibility and internalization by human blood cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2633-2642	6	44
24	Silk nanoparticles: proof of lysosomotropic anticancer drug delivery at single-cell resolution. <i>Journal of Drug Targeting</i> , 2017 , 25, 865-872	5.4	34
23	Silk nanoparticles—An emerging anticancer nanomedicine. <i>AIMS Bioengineering</i> , 2017 , 4, 239-258	3.4	32
22	Heparin-Modified Polyethylene Glycol Microparticle Aggregates for Focal Cancer Chemotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2287-2293	5.5	20
21	Manufacture and Drug Delivery Applications of Silk Nanoparticles. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	17
20	Tissue engineering a surrogate niche for metastatic cancer cells. <i>Biomaterials</i> , 2015 , 51, 313-319	15.6	48
19	PEGylated Silk Nanoparticles for Anticancer Drug Delivery. <i>Biomacromolecules</i> , 2015 , 16, 3712-22	6.9	69
18	Focal therapy of neuroblastoma using silk films to deliver kinase and chemotherapeutic agents in vivo. <i>Acta Biomaterialia</i> , 2015 , 20, 32-38	10.8	46
17	Multifunctional silk-heparin biomaterials for vascular tissue engineering applications. <i>Biomaterials</i> , 2014 , 35, 83-91	15.6	79
16	A material-based platform to modulate fibronectin activity and focal adhesion assembly. <i>BioResearch Open Access</i> , 2014 , 3, 286-96	2.4	30
15	Surgery combined with controlled-release doxorubicin silk films as a treatment strategy in an orthotopic neuroblastoma mouse model. <i>British Journal of Cancer</i> , 2014 , 111, 708-15	8.7	51
14	pH-dependent anticancer drug release from silk nanoparticles. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1606-11	10.1	156
13	Tightly anchored tissue-mimetic matrices as instructive stem cell microenvironments. <i>Nature Methods</i> , 2013 , 10, 788-94	21.6	162

12	Self-assembling doxorubicin silk hydrogels for the focal treatment of primary breast cancer. <i>Advanced Functional Materials</i> , 2013 , 23, 58-65	15.6	116
11	Silk Hydrogels: Self-Assembling Doxorubicin Silk Hydrogels for the Focal Treatment of Primary Breast Cancer (Adv. Funct. Mater. 1/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 57-57	15.6	
10	Silk for Drug Delivery Applications: Opportunities and Challenges. <i>Israel Journal of Chemistry</i> , 2013 , 53, n/a-n/a	3.4	11
9	Impact of processing parameters on the haemocompatibility of Bombyx mori silk films. <i>Biomaterials</i> , 2012 , 33, 1017-23	15.6	60
8	Polymeric biomaterials for stem cell bioengineering. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1420-31	4.8	37
7	Doxorubicin-loaded silk films: drug-silk interactions and in vivo performance in human orthotopic breast cancer. <i>Biomaterials</i> , 2012 , 33, 8442-50	15.6	86
6	In vitro model of metastasis to bone marrow mediates prostate cancer castration resistant growth through paracrine and extracellular matrix factors. <i>PLoS ONE</i> , 2012 , 7, e40372	3.7	21
5	Stem Cell Implants for Cancer Therapy: TRAIL-Expressing Mesenchymal Stem Cells Target Cancer Cells In Situ. <i>Journal of Breast Cancer</i> , 2012 , 15, 273-82	3	43
4	Matrix elasticity regulates the secretory profile of human bone marrow-derived multipotent mesenchymal stromal cells (MSCs). <i>Biochemical and Biophysical Research Communications</i> , 2009 , 389, 663-7	3.4	69
3	Engineered extracellular matrices modulate the expression profile and feeder properties of bone marrow-derived human multipotent mesenchymal stromal cells. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3161-71	3.9	24
2	Comparison of the endocytic properties of linear and branched PEIs, and cationic PAMAM dendrimers in B16F10 melanoma cells. <i>Journal of Controlled Release</i> , 2007 , 117, 291-300	11.7	166
1	Establishment of subcellular fractionation techniques to monitor the intracellular fate of polymer therapeutics I. Differential centrifugation fractionation B16F10 cells and use to study the intracellular fate of HPMA copolymer - doxorubicin. <i>Journal of Drug Targeting</i> , 2006 , 14, 375-90	5.4	40