Jonas G Croissant

List of Publications by Citations

52 papers	3,326 citations	34 h-index	57 g-index
57 ext. papers	3,815 ext. citations	10.7 avg, IF	5.68 L-index

#	Paper	IF	Citations
52	Degradability and Clearance of Silicon, Organosilica, Silsesquioxane, Silica Mixed Oxide, and Mesoporous Silica Nanoparticles. *Advanced Materials*, **2017**, 29, 1604634	24	369
51	Mesoporous Silica and Organosilica Nanoparticles: Physical Chemistry, Biosafety, Delivery Strategies, and Biomedical Applications. *Advanced Healthcare Materials*, **2018**, 7, 1700831	10.1	306
50	Syntheses and applications of periodic mesoporous organosilica nanoparticles. *Nanoscale*, **2015**, 7, 20318-34	7.7	193
49	Nanovalve-controlled cargo release activated by plasmonic heating. *Journal of the American Chemical Society*, **2012**, 134, 7628-31	16.4	193
48	Biodegradable ethylene-bis(propyl)disulfide-based periodic mesoporous organosilica nanorods and nanospheres for efficient in-vitro drug delivery. *Advanced Materials*, **2014**, 26, 6174-80	24	191
47	Protein-gold clusters-capped mesoporous silica nanoparticles for high drug loading, autonomous gemcitabine/doxorubicin co-delivery, and in-vivo tumor imaging. *Journal of Controlled Release*, **2016**, 229, 183-191	11.7	128
46	Establishing the effects of mesoporous silica nanoparticle properties on in vivo disposition using imaging-based pharmacokinetics. *Nature Communications*, **2018**, 9, 4551	17.4	126
45	Organosilica hybrid nanomaterials with a high organic content: syntheses and applications of silsesquioxanes. *Nanoscale*, **2016**, 8, 19945-19972	7.7	113
44	Two-photon-triggered drug delivery via fluorescent nanovalves. *Small*, **2014**, 10, 1752-5	11	101
43	Two-photon-triggered drug delivery in cancer cells using nanoimpellers. *Angewandte Chemie - International Edition*, **2013**, 52, 13813-7	16.4	91
42	Mixed Periodic Mesoporous Organosilica Nanoparticles and Core–Shell Systems, Application to in Vitro Two-Photon Imaging, Therapy, and Drug Delivery. *Chemistry of Materials*, **2014**, 26, 7214-7220	9.6	70
41	Biodegradable Magnetic Silica@Iron Oxide Nanovectors with Ultra-Large Mesopores for High Protein Loading, Magnetothermal Release, and Delivery. *Journal of Controlled Release*, **2017**, 259, 187-194	11.7	69
40	Synthetic amorphous silica nanoparticles: toxicity, biomedical and environmental implications. *Nature Reviews Materials*, **2020**, 5, 886-909	73.3	69
39	One-pot construction of multipodal hybrid periodic mesoporous organosilica nanoparticles with crystal-like architectures. *Advanced Materials*, **2015**, 27, 145-9	24	67
38	Biodegradable Oxamide-Phenylene-Based Mesoporous Organosilica Nanoparticles with Unprecedented Drug Payloads for Delivery in Cells. *Chemistry - A European Journal*, **2016**, 22, 14806-14811	4.8	67
37	Chick chorioallantoic membrane assay as an in vivo model to study the effect of nanoparticle-based anticancer drugs in ovarian cancer. *Scientific Reports*, **2018**, 8, 8524	4.9	65
36	Enzymatically degradable hybrid organic-inorganic bridged silsesquioxane nanoparticles for in vitro imaging. *Nanoscale*, **2015**, 7, 15046-50	7.7	58

35	Enhanced two-photon fluorescence imaging and therapy of cancer cells via Gold@bridged silsesquioxane nanoparticles. *Small*, **2015**, 11, 295-9	11	57
34	SupraCells: Living Mammalian Cells Protected within Functional Modular Nanoparticle-Based Exoskeletons. *Advanced Materials*, **2019**, 31, e1900545	24	56
33	Synthesis of disulfide-based biodegradable bridged silsesquioxane nanoparticles for two-photon imaging and therapy of cancer cells. *Chemical Communications*, **2015**, 51, 12324-7	5.8	54
32	Porphyrin-functionalized mesoporous organosilica nanoparticles for two-photon imaging of cancer cells and drug delivery. *Journal of Materials Chemistry B*, **2015**, 3, 3681-3684	7.3	54
31	Electrostatic assembly/disassembly of nanoscaled colloidosomes for light-triggered cargo release. *Angewandte Chemie - International Edition*, **2015**, 54, 6804-8	16.4	48
30	Multifunctional Gold-Mesoporous Silica Nanocomposites for Enhanced Two-Photon Imaging and Therapy of Cancer Cells. *Frontiers in Molecular Biosciences*, **2016**, 3, 1	5.6	45
29	Metal-Organic Framework Nanoparticle-Assisted Cryopreservation of Red Blood Cells. *Journal of the American Chemical Society*, **2019**, 141, 7789-7796	16.4	44
28	Disulfide-gated mesoporous silica nanoparticles designed for two-photon-triggered drug release and imaging. *Journal of Materials Chemistry B*, **2015**, 3, 6456-6461	7.3	43
27	Two-Photon-Triggered Drug Delivery in Cancer Cells Using Nanoimpellers. *Angewandte Chemie*, **2013**, 125, 14058-14062	3.6	42
26	Engineering Hydrophobic Organosilica Nanoparticle-Doped Nanofibers for Enhanced and Fouling Resistant Membrane Distillation. *ACS Applied Materials & Interfaces*, **2017**, 9, 1737-1745	9.5	41
25	Ultra-thin enzymatic liquid membrane for CO separation and capture. *Nature Communications*, **2018**, 9, 990	17.4	41
24	Porous Porphyrin-Based Organosilica Nanoparticles for NIR Two-Photon Photodynamic Therapy and Gene Delivery in Zebrafish. *Advanced Functional Materials*, **2018**, 28, 1800235	15.6	41
23	Nanodiamond-PMO for two-photon PDT and drug delivery. *Journal of Materials Chemistry B*, **2016**, 4, 5803-5808	7.3	41
22	Photoresponsive Bridged Silsesquioxane Nanoparticles with Tunable Morphology for Light-Triggered Plasmid DNA Delivery. *ACS Applied Materials & Interfaces*, **2015**, 7, 24993-7	9.5	40
21	Periodic Mesoporous Organosilica Nanoparticles with Controlled Morphologies and High Drug/Dye Loadings for Multicargo Delivery in Cancer Cells. *Chemistry - A European Journal*, **2016**, 22, 9607-15	4.8	38
20	Versatile heavy metals removal via magnetic mesoporous nanocontainers. *RSC Advances*, **2014**, 4, 24838-24841	3.7	37
19	Fluorescent periodic mesoporous organosilica nanoparticles dual-functionalized via click chemistry for two-photon photodynamic therapy in cells. *Journal of Materials Chemistry B*, **2016**, 4, 5567-5574	7.3	35
18	Modular Metal-Organic Polyhedra Superassembly: From Molecular-Level Design to Targeted Drug Delivery. *Advanced Materials*, **2019**, 31, e1806774	24	34

17	Synthesis and characterization of crystalline structures based on phenylboronate ligands bound to alkaline earth cations. *Inorganic Chemistry*, **2011**, 50, 7802-10	5.1	34
16	Biomimetic Rebuilding of Multifunctional Red Blood Cells: Modular Design Using Functional Components. *ACS Nano*, **2020**, 14, 7847-7859	16.7	32
15	Electrostatic Assembly/Disassembly of Nanoscaled Colloidosomes for Light-Triggered Cargo Release. *Angewandte Chemie*, **2015**, 127, 6908-6912	3.6	32
14	Two-Photon-Excited Silica and Organosilica Nanoparticles for Spatiotemporal Cancer Treatment. *Advanced Healthcare Materials*, **2018**, 7, e1701248	10.1	30
13	Gemcitabine Delivery and Photodynamic Therapy in Cancer Cells via Porphyrin-Ethylene-Based Periodic Mesoporous Organosilica Nanoparticles. *ChemNanoMat*, **2018**, 4, 46-51	3.5	23
12	Cellular Internalization and Biocompatibility of Periodic Mesoporous Organosilica Nanoparticles with Tunable Morphologies: From Nanospheres to Nanowires. *ChemPlusChem*, **2017**, 82, 631-637	2.8	19
11	Influence of the synthetic method on the properties of two-photon-sensitive mesoporous silica nanoparticles. *Journal of Materials Chemistry B*, **2015**, 3, 5182-5188	7.3	19
10	Colloidal Gold Nanoclusters Spiked Silica Fillers in Mixed Matrix Coatings: Simultaneous Detection and Inhibition of Healthcare-Associated Infections. *Advanced Healthcare Materials*, **2017**, 6, 1601135	10.1	17
9	Biodegradable Silica-Based Nanoparticles: Dissolution Kinetics and Selective Bond Cleavage. *The Enzymes*, **2018**, 43, 181-214	2.3	15
8	Thermoresponsive pegylated bubble liposome nanovectors for efficient siRNA delivery via endosomal escape. *Nanomedicine*, **2017**, 12, 1421-1433	5.6	13
7	Photocracking Silica: Tuning the Plasmonic Photothermal Degradation of Mesoporous Silica Encapsulating Gold Nanoparticles for Cargo Release. *Inorganics*, **2019**, 7, 72	2.9	7
6	Click approaches in sol□el chemistry. *Journal of Sol-Gel Science and Technology*, **2013**, 70, 245	2.3	5
5	Abstract LB-9: Light-controllable nano-drug delivery system with deep tissue penetrating ability for cancer therapy with two-photon-triggered nanoimpellers **2014**,		3
4	Mesoporous Silica-Based Nanoparticles for Light-Actuated Biomedical Applications via Near-Infrared Two-Photon Absorption. *The Enzymes*, **2018**, 43, 67-99	2.3	3
3	Engineering of large-pore lipid-coated mesoporous silica nanoparticles for dual cargo delivery to cancer cells. *Journal of Sol-Gel Science and Technology*, **2019**, 89, 78-90	2.3	2
2	Cancer Treatment: Two-Photon-Excited Silica and Organosilica Nanoparticles for Spatiotemporal Cancer Treatment (Adv. Healthcare Mater. 7/2018). *Advanced Healthcare Materials*, **2018**, 7, 1870032	10.1	
1	Nanoparticle Vaccines for Immunotherapy: From Design to Clinical Trials. *AAPS Advances in the Pharmaceutical Sciences Series*, **2020**, 177-204	0.5	