Silke Krol

List of Publications by Year in Descending Order

50 papers	2,256 citations	22 h-index	47 g-index
57 ext. papers	2,518 ext. citations	6.9 avg, IF	4.66 L-index

#	Paper	IF	Citations
50	Polyphenols Epigallocatechin Gallate and Resveratrol, and Polyphenol-Functionalized Nanoparticles Prevent Enterovirus Infection through Clustering and Stabilization of the Viruses. *Pharmaceutics*, **2021**, 13,	6.4	5
49	Multi-sulfonated ligands on gold nanoparticles as virucidal antiviral for Dengue virus. *Scientific Reports*, **2020**, 10, 9052	4.9	21
48	Reproducibility warning: The curious case of polyethylene glycol 6000 and spheroid cell culture. *PLoS ONE*, **2020**, 15, e0224002	3.7	2
47	FM19G11-Loaded Gold Nanoparticles Enhance the Proliferation and Self-Renewal of Ependymal Stem Progenitor Cells Derived from ALS Mice. *Cells*, **2019**, 8,	7.9	13
46	Urinary exosomal shuttle RNA: Promising cancer diagnosis biomarkers of lower urinary tract. *International Journal of Biological Markers*, **2019**, 34, 101-107	2.8	11
45	Patchy Amphiphilic Dendrimers Bind Adenovirus and Control Its Host Interactions and in Vivo Distribution. *ACS Nano*, **2019**, 13, 8749-8759	16.7	18
44	Validation of Hepatocellular Carcinoma Experimental Models for TGF- Promoting Tumor Progression. *Cancers*, **2019**, 11,	6.6	11
43	Human serum albumin nanoparticles loaded with phthalocyanine dyes for potential use in photodynamic therapy for atherosclerotic plaques. *Precision Nanomedicine*, **2019**, 2, 279-302	1.2	1
42	Synthesis and biological activity of an Anderson polyoxometalate bis-functionalized with a Bombesin-analog peptide. *Peptide Science*, **2018**, 110, e24047	3	17
41	pH-Mediated molecular differentiation for fluorimetric quantification of chemotherapeutic drugs in human plasma. *Chemical Communications*, **2018**, 54, 1485-1488	5.8	7
40	Broad-spectrum non-toxic antiviral nanoparticles with a virucidal inhibition mechanism. *Nature Materials*, **2018**, 17, 195-203	27	229
39	Selective Targeting of Proteins by Hybrid Polyoxometalates: Interaction Between a Bis-Biotinylated Hybrid Conjugate and Avidin. *Frontiers in Chemistry*, **2018**, 6, 278	5	13
38	Conformal coating by multilayer nano-encapsulation for the protection of human pancreatic islets: In-vitro and in-vivo studies. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 2191-2203	6	13
37	Frizzled-10 and cancer progression: Is it a new prognostic marker?. *Oncotarget*, **2018**, 9, 824-830	3.3	11
36	Distribution of superparamagnetic Au/Fe nanoparticles in an isolated guinea pig brain with an intact blood brain barrier. *Nanoscale*, **2018**, 10, 22420-22428	7.7	7
35	Evolution of Nanoparticle Protein Corona across the Blood-Brain Barrier. *ACS Nano*, **2018**, 12, 7292-7300	16.7	92
34	Superparamagnetic Nanoparticles as High Efficiency Magnetic Resonance Imaging T Contrast Agent. *Bioconjugate Chemistry*, **2017**, 28, 161-170	6.3	17

33	Fluorinated and Charged Hydrogenated Alkanethiolates Grafted on Gold: Expanding the Diversity of Mixed-Monolayer Nanoparticles for Biological Applications. *Bioconjugate Chemistry*, **2017**, 28, 43-52	6.3	14
32	Nanosensors for early cancer detection and for therapeutic drug monitoring. *Nanomedicine*, **2015**, 10, 3495-512	5.6	43
31	Oxygen-plasma-modified biomimetic nanofibrous scaffolds for enhanced compatibility of cardiovascular implants. *Beilstein Journal of Nanotechnology*, **2015**, 6, 254-62	3	36
30	On the Slow Diffusion of Point-of-Care Systems in Therapeutic Drug Monitoring. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 20	5.8	21
29	Blood protein coating of gold nanoparticles as potential tool for organ targeting. *Biomaterials*, **2014**, 35, 3455-66	15.6	90
28	Therapeutic benefits from nanoparticles: the potential significance of nanoscience in diseases with compromise to the blood brain barrier. *Chemical Reviews*, **2013**, 113, 1877-903	68.1	160
27	Challenges in drug delivery to the brain: nature is against us. *Journal of Controlled Release*, **2012**, 164, 145-55	11.7	106
26	Nanomedicine for treatment of diabetes in an aging population: state-of-the-art and future developments. *Maturitas*, **2012**, 73, 61-7	5	7
25	Poly-L-lysine-coated silver nanoparticles as positively charged substrates for surface-enhanced Raman scattering. *Langmuir*, **2012**, 28, 13166-71	4	69
24	Design, development and characterization of multi-functionalized gold nanoparticles for biodetection and targeted boron delivery in BNCT applications. *Applied Radiation and Isotopes*, **2011**, 69, 1692-7	1.7	33
23	Synthesis and multidisciplinary characterization of polyelectrolyte multilayer-coated nanogold with improved stability toward aggregation. *Colloid and Polymer Science*, **2011**, 289, 269-280	2.4	14
22	Targeted multicomponent polysomes for high efficiency, simultaneous anti-sense and gene delivery. *Soft Matter*, **2011**, 7, 9424	3.6	2
21	Functionalized gold nanoparticles: a detailed in vivo multimodal microscopic brain distribution study. *Nanoscale*, **2010**, 2, 2826-34	7.7	96
20	A novel class of potential prion drugs: preliminary in vitro and in vivo data for multilayer coated gold nanoparticles. *Nanoscale*, **2010**, 2, 2724-32	7.7	24
19	Electrophoretic characterization of gold nanoparticles functionalized with human serum albumin (HSA) and creatine. *Journal of Colloid and Interface Science*, **2009**, 332, 215-23	9.3	68
18	Asymmetrical flow field-flow fractionation with multi-angle light scattering detection for the analysis of structured nanoparticles. *Journal of Chromatography A*, **2009**, 1216, 9106-12	4.5	61
17	Structural stability of green fluorescent proteins entrapped in polyelectrolyte nanocapsules. *Journal of Biophotonics*, **2008**, 1, 310-9	3.1	3
16	Deformation and adhesion of elastomer poly(dimethylsiloxane) colloidal AFM probes. *Langmuir*, **2007**, 23, 9293-302	4	28

15	Voltage regulation of single green fluorescent protein mutants. *Biophysical Chemistry*, **2007**, 125, 368-74	3.5	6
14	Multilayer nanoencapsulation. New approach for immune protection of human pancreatic islets. *Nano Letters*, **2006**, 6, 1933-9	11.5	156
13	Mechanical properties of single living cells encapsulated in polyelectrolyte matrixes. *Journal of Biotechnology*, **2006**, 124, 723-31	3.7	71
12	Enhanced Green Fluorescent Protein (GFP) fluorescence after polyelectrolyte caging. *Optics Express* , **2006**, 14, 9815-24	3.3	5
11	Encapsulated living cells on microstructured surfaces. *Langmuir*, **2005**, 21, 705-9	4	70
10	Interaction of polyelectrolytes and their composites with living cells. *Nano Letters*, **2005**, 5, 2605-12	11.5	109
9	High sensitivity optical microscope for single molecule spectroscopy studies. *Review of Scientific Instruments*, **2004**, 75, 2746-2751	1.7	18
8	Nanocapsules: coating for living cells. *IEEE Transactions on Nanobioscience*, **2004**, 3, 32-8	3.4	27
7	Polyelectrolytes, Polyelectrolyte Microcapsules and Nanospheres- Valuable tools for Microscope Refinement in Subresolution Range. *Microscopy and Microanalysis*, **2004**, 10, 1288-1289	0.5	
6	Two-Photon Photolysis of 2-Nitrobenzaldehyde Monitored by Fluorescent-Labeled Nanocapsules. *Journal of Physical Chemistry B*, **2003**, 107, 11008-11012	3.4	14
5	Kinetics of phospholipid insertion into monolayers containing the lung surfactant proteins SP-B or SP-C. *European Biophysics Journal*, **2002**, 31, 52-61	1.9	43
4	Single Living Cell Encapsulation in Nano-organized Polyelectrolyte Shells. *Langmuir*, **2002**, 18, 5047-5050	4	214
3	The effect of lipid composition and physical state of phospholipid monolayer on the binding and incorporation of a basic amphipathic peptide from the C-terminal region of the HIV envelope protein gp41. *Chemistry and Physics of Lipids*, **2000**, 107, 83-92	3.7	13
2	Formation of three-dimensional protein-lipid aggregates in monolayer films induced by surfactant protein B. *Biophysical Journal*, **2000**, 79, 904-18	2.9	122
1	Structure and function of surfactant protein B and C in lipid monolayers: a scanning force microscopy study. *Physical Chemistry Chemical Physics*, **2000**, 2, 4586-4593	3.6	21