

Roland H Stauber

List of Publications by Year in descending order

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109
papers

8,216
citations

66343

42
h-index

46799

89
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114
all docs

114
docs citations

114
times ranked

12051
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. <i>Nature Nanotechnology</i> , 2013, 8, 772-781.	31.5	1,817
2	Nanoparticle Size Is a Critical Physicochemical Determinant of the Human Blood Plasma Corona: A Comprehensive Quantitative Proteomic Analysis. <i>ACS Nano</i> , 2011, 5, 7155-7167.	14.6	749
3	The nanoparticle biomolecule corona: lessons learned – challenge accepted?. <i>Chemical Society Reviews</i> , 2015, 44, 6094-6121.	38.1	539
4	In vivo degeneration and the fate of inorganic nanoparticles. <i>Chemical Society Reviews</i> , 2016, 45, 2440-2457.	38.1	355
5	Impact of the Nanoparticle-Protein Corona on Colloidal Stability and Protein Structure. <i>Langmuir</i> , 2012, 28, 9673-9679.	3.5	291
6	Understanding and exploiting nanoparticles' intimacy with the blood vessel and blood. <i>Chemical Society Reviews</i> , 2015, 44, 8174-8199.	38.1	268
7	A phosphorylation-acetylation switch regulates STAT1 signaling. <i>Genes and Development</i> , 2009, 23, 223-235.	5.9	227
8	Nuclear and Cytoplasmic Survivin: Molecular Mechanism, Prognostic, and Therapeutic Potential. <i>Cancer Research</i> , 2007, 67, 5999-6002.	0.9	209
9	Quantitative profiling of the protein coronas that form around nanoparticles. <i>Nature Protocols</i> , 2014, 9, 2030-2044.	12.0	200
10	Development and Applications of Enhanced Green Fluorescent Protein Mutants. <i>BioTechniques</i> , 1998, 24, 462-471.	1.8	151
11	Small is Smarter: Nano MRI Contrast Agents – Advantages and Recent Achievements. <i>Small</i> , 2016, 12, 556-576.	10.0	147
12	Inflammatory and cytotoxic responses of an alveolar-capillary coculture model to silica nanoparticles: Comparison with conventional monocultures. <i>Particle and Fibre Toxicology</i> , 2011, 8, 6.	6.2	123
13	Nuclear export is essential for the tumor-promoting activity of survivin. <i>FASEB Journal</i> , 2007, 21, 207-216.	0.5	116
14	The Survivin-Crm1 interaction is essential for chromosomal passenger complex localization and function. <i>EMBO Reports</i> , 2006, 7, 1259-1265.	4.5	112
15	Protein corona – from molecular adsorption to physiological complexity. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 857-873.	2.8	108
16	No king without a crown – impact of the nanomaterial-protein corona on nanobiomedicine. <i>Nanomedicine</i> , 2015, 10, 503-519.	3.3	101
17	Dynamic intracellular survivin in oral squamous cell carcinoma: underlying molecular mechanism and potential as an early prognostic marker. <i>Journal of Pathology</i> , 2007, 211, 532-540.	4.5	100
18	The adenovirus type 5 E1B-55K oncoprotein is a highly active shuttle protein and shuttling is independent of E4orf6, p53 and Mdm2. <i>Oncogene</i> , 2000, 19, 850-857.	5.9	94

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19	Physicochemical characterization of nanoparticles and their behavior in the biological environment. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15053-15067.	2.8	87
20	Changing environments and biomolecule coronas: consequences and challenges for the design of environmentally acceptable engineered nanoparticles. <i>Green Chemistry</i> , 2018, 20, 4133-4168.	9.0	81
21	Histone deacetylase inhibitors and hydroxyurea modulate the cell cycle and cooperatively induce apoptosis. <i>Oncogene</i> , 2008, 27, 732-740.	5.9	77
22	NO Signaling Confers Cytoprotectivity through the Survivin Network in Ovarian Carcinomas. <i>Cancer Research</i> , 2008, 68, 5159-5166.	0.9	68
23	The protein corona protects against size- and dose-dependent toxicity of amorphous silica nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1380-1392.	2.8	68
24	Inducible NO synthase confers chemoresistance in head and neck cancer by modulating survivin. <i>International Journal of Cancer</i> , 2009, 124, 2033-2041.	5.1	67
25	Small Meets Smaller: Effects of Nanomaterials on Microbial Biology, Pathology, and Ecology. <i>ACS Nano</i> , 2018, 12, 6351-6359.	14.6	66
26	Survivin's Dual Role: An Exporter's View. <i>Cell Cycle</i> , 2007, 6, 518-521.	2.6	64
27	The concept of bio-corona in modulating the toxicity of engineered nanomaterials (ENM). <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 53-57.	2.8	61
28	Analysis of Intracellular Trafficking and Interactions of Cytoplasmic HIV-1 Rev Mutants in Living Cells. <i>Virology</i> , 1998, 251, 38-48.	2.4	60
29	A combination of a ribonucleotide reductase inhibitor and histone deacetylase inhibitors downregulates EGFR and triggers BIM-dependent apoptosis in head and neck cancer. <i>Oncotarget</i> , 2012, 3, 31-43.	1.8	60
30	Patient-based cross-platform comparison of oligonucleotide microarray expression profiles. <i>Laboratory Investigation</i> , 2005, 85, 1024-1039.	3.7	56
31	Time-of-flight magnetic flow cytometry in whole blood with integrated sample preparation. <i>Lab on A Chip</i> , 2013, 13, 1035.	6.0	55
32	The Survivin Isoform Survivin-3B is Cytoprotective and can Function as a Chromosomal Passenger Complex Protein. <i>Cell Cycle</i> , 2007, 6, 1501-1508.	2.6	54
33	Direct Observation of Nucleocytoplasmic Transport by Microinjection of GFP-Tagged Proteins in Living Cells. <i>BioTechniques</i> , 1999, 27, 350-355.	1.8	50
34	Temperature-Triggered Protein Adsorption on Polymer-Coated Nanoparticles in Serum. <i>Langmuir</i> , 2015, 31, 8873-8881.	3.5	50
35	MYC directs transcription of MCL1 and eIF4E genes to control sensitivity of gastric cancer cells toward HDAC inhibitors. <i>Cell Cycle</i> , 2012, 11, 1593-1602.	2.6	48
36	Biomolecule-corona formation confers resistance of bacteria to nanoparticle-induced killing: Implications for the design of improved nanoantibiotics. <i>Biomaterials</i> , 2019, 192, 551-559.	11.4	48

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37	Cell-based Analysis of Structure-Function Activity of Threonine Aspartase 1. <i>Journal of Biological Chemistry</i> , 2011, 286, 3007-3017.	3.4	45
38	Nanoparticulate flurbiprofen reduces amyloid- β 242 generation in an in vitro blood-brain barrier model. <i>Alzheimer's Research and Therapy</i> , 2013, 5, 51.	6.2	45
39	Nanoparticle binding attenuates the pathobiology of gastric cancer-associated <i>Helicobacter pylori</i> . <i>Nanoscale</i> , 2018, 10, 1453-1463.	5.6	45
40	SIAH proteins: critical roles in leukemogenesis. <i>Leukemia</i> , 2013, 27, 792-802.	7.2	44
41	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. <i>Chemical Society Reviews</i> , 2018, 47, 5312-5337.	38.1	44
42	Tuning the Surface of Nanoparticles: Impact of Poly(2-ethyl-2-oxazoline) on Protein Adsorption in Serum and Cellular Uptake. <i>Macromolecular Bioscience</i> , 2016, 16, 1287-1300.	4.1	43
43	Translocation Biosensors to Study Signal-Specific Nucleo-Cytoplasmic Transport, Protease Activity and Protein-Protein Interactions. <i>Traffic</i> , 2005, 6, 594-606.	2.7	42
44	Microfluidic Impedimetric Cell Regeneration Assay to Monitor the Enhanced Cytotoxic Effect of Nanomaterial Perfusion. <i>Biosensors</i> , 2015, 5, 736-749.	4.7	40
45	Dynamic survivin in head and neck cancer: Molecular mechanism and therapeutic potential. <i>International Journal of Cancer</i> , 2007, 121, 1169-1174.	5.1	38
46	The effect of saliva on the fate of nanoparticles. <i>Clinical Oral Investigations</i> , 2018, 22, 929-940.	3.0	37
47	Nanosized food additives impact beneficial and pathogenic bacteria in the human gut: a simulated gastrointestinal study. <i>Npj Science of Food</i> , 2018, 2, 22.	5.5	37
48	The survivin isoform survivin-3B is cytoprotective and can function as a chromosomal passenger complex protein. <i>Cell Cycle</i> , 2007, 6, 1502-9.	2.6	37
49	Titration of cellular export factors, but not heteromultimerization, is the molecular mechanism of trans-dominant HTLV-1 Rex mutants. <i>Oncogene</i> , 1999, 18, 4080-4090.	5.9	36
50	Development of an Autofluorescent Translocation Biosensor System To Investigate Protein-Protein Interactions in Living Cells. <i>Analytical Chemistry</i> , 2005, 77, 4815-4820.	6.5	36
51	Nucleocytoplasmic Shuttling and the Biological Activity of Mouse Survivin are Regulated by an Active Nuclear Export Signal. <i>Traffic</i> , 2006, 7, 1461-1472.	2.7	36
52	Nuclear Export Is Evolutionarily Conserved in CVC Paired-Like Homeobox Proteins and Influences Protein Stability, Transcriptional Activation, and Extracellular Secretion. <i>Molecular and Cellular Biology</i> , 2005, 25, 2573-2582.	2.3	35
53	Translocation Biosensors as Cellular System Integrators to Dissect CRM1-Dependent Nuclear Export by Chemicogenomics. <i>Sensors</i> , 2009, 9, 5423-5445.	3.8	33
54	An otoprotective role for the apoptosis inhibitor protein survivin. <i>Cell Death and Disease</i> , 2010, 1, e51-e51.	6.3	33

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55	The Importin α /Nucleophosmin Switch Controls Taspase1 Protease Function. <i>Traffic</i> , 2011, 12, 703-714.	2.7	32
56	The heterodimerization domains of MLL β and FYRC β are potential target structures in t(4;11) leukemia. <i>Leukemia</i> , 2011, 25, 663-670.	7.2	31
57	Nano Meets Micro-Translational Nanotechnology in Medicine: Nano-Based Applications for Early Tumor Detection and Therapy. <i>Nanomaterials</i> , 2020, 10, 383.	4.1	30
58	Rapid Evaluation and Optimization of Recombinant Protein Production Using GFP Tagging. <i>Protein Expression and Purification</i> , 2001, 21, 220-223.	1.3	28
59	Qualitative Highly Divergent Nuclear Export Signals Can Regulate Export by the Competition for Transport Cofactors in Vivo. <i>Traffic</i> , 2001, 2, 544-555.	2.7	25
60	Bioassays to Monitor Taspase1 Function for the Identification of Pharmacogenetic Inhibitors. <i>PLoS ONE</i> , 2011, 6, e18253.	2.5	25
61	Allosteric inhibition of Taspase1's pathobiological activity by enforced dimerization <i>in vivo</i> . <i>FASEB Journal</i> , 2012, 26, 3421-3429.	0.5	22
62	Is small smarter? Nanomaterial-based detection and elimination of circulating tumor cells: current knowledge and perspectives. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 4187-4209.	6.7	22
63	Nuclear receptors in head and neck cancer: current knowledge and perspectives. <i>International Journal of Cancer</i> , 2010, 126, 801-809.	5.1	21
64	Synthesis and Characterization of Stimuli-Responsive Star-Like Polypept(o)ides: Introducing Biodegradable PeptoStars. <i>Macromolecular Bioscience</i> , 2017, 17, 1600514.	4.1	21
65	$\hat{\pm}$ -Linolenic Acid-Rich Diet Influences Microbiota Composition and Villus Morphology of the Mouse Small Intestine. <i>Nutrients</i> , 2020, 12, 732.	4.1	21
66	Taspase1: a 'misunderstood' protease with translational cancer relevance. <i>Oncogene</i> , 2016, 35, 3351-3364.	5.9	20
67	Expression analysis suggests a potential cytoprotective role of Birc5 in the inner ear. <i>Molecular and Cellular Neurosciences</i> , 2010, 45, 297-305.	2.2	19
68	Monitoring nanoparticle induced cell death in H441 cells using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2013, 40, 89-95.	10.1	19
69	Bio-Nano Interactions. , 2017, , 1-12.		17
70	Targeting Cancer Chemotherapy Resistance by Precision Medicine-Driven Nanoparticle-Formulated Cisplatin. <i>ACS Nano</i> , 2021, 15, 18541-18556.	14.6	17
71	Functional Characterization of Novel Mutations Affecting Survivin (BIRC5)-Mediated Therapy Resistance in Head and Neck Cancer Patients. <i>Human Mutation</i> , 2013, 34, 395-404.	2.5	16
72	Expressional analysis of disease-relevant signalling-pathways in primary tumours and metastasis of head and neck cancers. <i>Scientific Reports</i> , 2018, 8, 7326.	3.3	16

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73	Nanoparticle decoration impacts airborne fungal pathobiology. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7087-7092.	7.1	15
74	Therapeutic potential of nuclear receptors. Expert Opinion on Therapeutic Patents, 2008, 18, 861-888.	5.0	13
75	Cloning and functional characterization of the guinea pig apoptosis inhibitor protein Survivin. Gene, 2010, 469, 9-17.	2.2	13
76	Profiling Cisplatin Resistance in Head and Neck Cancer: A Critical Role of the VRAC Ion Channel for Chemoresistance. Cancers, 2021, 13, 4831.	3.7	13
77	Investigating the Vascular Toxicity Outcomes of the Irreversible Proteasome Inhibitor Carfilzomib. International Journal of Molecular Sciences, 2020, 21, 5185.	4.1	12
78	Cleaving for growth: threonine aspartase 1â€™a protease relevant for development and disease. FASEB Journal, 2016, 30, 1012-1022.	0.5	11
79	Colonization with Altered Schaedler Flora Impacts Leukocyte Adhesion in Mesenteric Ischemia-Reperfusion Injury. Microorganisms, 2021, 9, 1601.	3.6	11
80	Overexpression of the Catalytically Impaired Taspase1T234V or Taspase1D233A Variants Does Not Have a Dominant Negative Effect in T(4;11) Leukemia Cells. PLoS ONE, 2012, 7, e34142.	2.5	11
81	Nanomediical detection and downstream analysis of circulating tumor cells in head and neck patients. Biological Chemistry, 2019, 400, 1465-1479.	2.5	10
82	Targeting Taspase1 for Cancer Therapyâ€™Letter. Cancer Research, 2012, 72, 2912-2912.	0.9	9
83	Fly versus man: evolutionary impairment of nucleolar targeting affects the degradome of Drosophila's Taspase1. FASEB Journal, 2015, 29, 1973-1985.	0.5	9
84	REMOVED: Breaking resistance to nanoantibiotics by overriding corona-dependent inhibition using a pH-switch. Materials Today, 2019, 26, 19-29.	14.2	9
85	Boosting nanotoxicity to combat multidrug-resistant bacteria in pathophysiological environments. Nanoscale Advances, 2020, 2, 5428-5440.	4.6	9
86	The DNA methylation landscape of PD-1 (PDCD1) and adjacent lncRNA AC131097.3 in head and neck squamous cell carcinoma. Epigenomics, 2021, 13, 113-127.	2.1	9
87	Identification of cytokeratin24 as a tumor suppressor for the management of head and neck cancer. Biological Chemistry, 2022, 403, 869-890.	2.5	9
88	Arginine residues within the DNA binding domain of STAT3 promote intracellular shuttling and phosphorylation of STAT3. Cellular Signalling, 2014, 26, 1698-1706.	3.6	8
89	TFIIA transcriptional activity is controlled by a cleave-and-run™ Exportin-1/Taspase 1-switch. Journal of Molecular Cell Biology, 2018, 10, 33-47.	3.3	8
90	Resistance to Nano-Based Antifungals Is Mediated by Biomolecule Coronas. ACS Applied Materials & Interfaces, 2019, 11, 104-114.	8.0	8

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91	Mechanisms of nanotoxicity – biomolecule coronas protect pathological fungi against nanoparticle-based eradication. <i>Nanotoxicology</i> , 2020, 14, 1157-1174.	3.0	8
92	Investigation of nucleo-cytoplasmic transport using UV-guided microinjection. <i>Journal of Cellular Biochemistry</i> , 2001, 80, 388-396.	2.6	7
93	The other side of the corona: nanoparticles inhibit the protease <i>taspase1</i> in a size-dependent manner. <i>Nanoscale</i> , 2020, 12, 19093-19103.	5.6	7
94	Integration of Polylactide into Polyethylenimine Facilitates the Safe and Effective Intracellular siRNA Delivery. <i>Polymers</i> , 2020, 12, 445.	4.5	7
95	IsoMAG – An Automated System for the Immunomagnetic Isolation of Squamous Cell Carcinoma-Derived Circulating Tumor Cells. <i>Diagnostics</i> , 2021, 11, 2040.	2.6	7
96	Molecularly engineered tumor acidity-responsive plant toxin gelonin for safe and efficient cancer therapy. <i>Bioactive Materials</i> , 2022, 18, 42-55.	15.6	7
97	An update on the pathobiological relevance of nuclear receptors for cancers of the head and neck. <i>Histology and Histopathology</i> , 2010, 25, 1093-104.	0.7	7
98	Interferon alpha-armed nanoparticles trigger rapid and sustained STAT1-dependent anti-viral cellular responses. <i>Cellular Signalling</i> , 2013, 25, 989-998.	3.6	5
99	Early Alterations of Endothelial Nitric Oxide Synthase Expression Patterns in the Guinea Pig Cochlea After Noise Exposure. <i>Journal of Histochemistry and Cytochemistry</i> , 2019, 67, 845-855.	2.5	5
100	Growth Factor Receptor Expression in Oropharyngeal Squamous Cell Cancer: Her1 – 4 and c-Met in Conjunction with the Clinical Features and Human Papillomavirus (p16) Status. <i>Cancers</i> , 2020, 12, 3358.	3.7	5
101	pH low insertion peptide (pHLIP)-decorated polymeric nanovehicle for efficient and pH-responsive siRNA translocation. <i>Materials and Design</i> , 2021, 212, 110197.	7.0	5
102	Methods and Assays to Investigate Nuclear Export. <i>Current Topics in Microbiology and Immunology</i> , 2001, 259, 119-128.	1.1	4
103	The <i>Taspase1/Myosin1f</i> -axis regulates filopodia dynamics. <i>IScience</i> , 2022, 25, 104355.	4.1	4
104	Impact of Secretion-Active Osteoblast-Specific Factor 2 in Promoting Progression and Metastasis of Head and Neck Cancer. <i>Cancers</i> , 2022, 14, 2337.	3.7	4
105	Angiomyolipomas are Indicator Lesions for Sporadic Lymphangioleiomyomatosis in Women. <i>European Urology</i> , 2009, 55, 755-756.	1.9	3
106	TNF- α -Inhibition Improves the Biocompatibility of Porous Polyethylene Implants In Vivo. <i>Tissue Engineering and Regenerative Medicine</i> , 2021, 18, 297-303.	3.7	3
107	Threonine Aspartase1: An unexplored protease with relevance for oral oncology?. <i>Oral Oncology</i> , 2016, 54, e10-e12.	1.5	2
108	Translocation Biosensors – Versatile Tools to Probe Protein Functions in Living Cells. <i>Methods in Molecular Biology</i> , 2018, 1683, 195-210.	0.9	1

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109	Protein Translocation Assays to Probe Protease Function and Screen for Inhibitors. <i>Methods in Molecular Biology</i> , 2017, 1574, 227-241.	0.9	0