

Sangeeta N Bhatia

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

7,123
citations

76326

40
h-index

133252

59
g-index

67
all docs

67
docs citations

67
times ranked

10473
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscale culture of human liver cells for drug development. <i>Nature Biotechnology</i> , 2008, 26, 120-126.	17.5	1,088
2	Magnetic Iron Oxide Nanoworms for Tumor Targeting and Imaging. <i>Advanced Materials</i> , 2008, 20, 1630-1635.	21.0	516
3	Renal clearable catalytic gold nanoclusters for in vivo disease monitoring. <i>Nature Nanotechnology</i> , 2019, 14, 883-890.	31.5	333
4	Programmable probiotics for detection of cancer in urine. <i>Science Translational Medicine</i> , 2015, 7, 289ra84.	12.4	326
5	Early detection of cancer. <i>Science</i> , 2022, 375, eaay9040.	12.6	291
6	Cell and tissue engineering for liver disease. <i>Science Translational Medicine</i> , 2014, 6, 245sr2.	12.4	247
7	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016, 12, e1005763.	4.7	244
8	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. <i>Nature Medicine</i> , 2018, 24, 408-416.	30.7	235
9	Identification of small molecules for human hepatocyte expansion and iPS differentiation. <i>Nature Chemical Biology</i> , 2013, 9, 514-520.	8.0	230
10	A Microscale Human Liver Platform that Supports the Hepatic Stages of <i>Plasmodium falciparum</i> and <i>vivax</i> . <i>Cell Host and Microbe</i> , 2013, 14, 104-115.	11.0	195
11	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. <i>Nature Biotechnology</i> , 2013, 31, 63-70.	17.5	176
12	Point-of-care diagnostics for noncommunicable diseases using synthetic urinary biomarkers and paper microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3671-3676.	7.1	167
13	Targeted Tumor-Penetrating siRNA Nanocomplexes for Credentialing the Ovarian Cancer Oncogene <i>CD44</i> . <i>Science Translational Medicine</i> , 2012, 4, 147ra112.	12.4	157
14	Acidification of Tumor at Stromal Boundaries Drives Transcriptome Alterations Associated with Aggressive Phenotypes. <i>Cancer Research</i> , 2019, 79, 1952-1966.	0.9	157
15	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12440-12444.	13.8	144
16	Engineering a perfusable 3D human liver platform from iPS cells. <i>Lab on A Chip</i> , 2016, 16, 2644-2653.	6.0	142
17	A peptide for targeted, systemic delivery of imaging and therapeutic compounds into acute brain injuries. <i>Nature Communications</i> , 2016, 7, 11980.	12.8	138
18	Nanoparticle Self-Assembly Gated by Logical Proteolytic Triggers. <i>Journal of the American Chemical Society</i> , 2007, 129, 6064-6065.	13.7	123

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19	Self-Sealing Porous Silicon-Calcium Silicate Core-Shell Nanoparticles for Targeted siRNA Delivery to the Injured Brain. <i>Advanced Materials</i> , 2016, 28, 7962-7969.	21.0	123
20	Micropatterned coculture of primary human hepatocytes and supportive cells for the study of hepatotropic pathogens. <i>Nature Protocols</i> , 2015, 10, 2027-2053.	12.0	119
21	In Vitro Culture, Drug Sensitivity, and Transcriptome of Plasmodium Vivax Hypnozoites. <i>Cell Host and Microbe</i> , 2018, 23, 395-406.e4.	11.0	118
22	Neuron-Targeted Nanoparticle for siRNA Delivery to Traumatic Brain Injuries. <i>ACS Nano</i> , 2016, 10, 7926-7933.	14.6	110
23	Uncovering and Mitigating Algorithmic Bias through Learned Latent Structure. , 2019, , .		101
24	Mapping functional humoral correlates of protection against malaria challenge following RTS,S/AS01 vaccination. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	100
25	Nanoparticles That Sense Thrombin Activity As Synthetic Urinary Biomarkers of Thrombosis. <i>ACS Nano</i> , 2013, 7, 9001-9009.	14.6	98
26	Ultrasensitive tumour-penetrating nanosensors of protease activity. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	94
27	Oxygen is a factor determining in vitro tissue assembly: Effects on attachment and spreading of hepatocytes. <i>Biotechnology and Bioengineering</i> , 1994, 43, 654-660.	3.3	90
28	The challenges posed by cancer heterogeneity. <i>Nature Biotechnology</i> , 2012, 30, 604-610.	17.5	90
29	Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , 2021, 21, 655-668.	28.4	84
30	Smart nanosystems: Bio-inspired technologies that interact with the host environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14460-14466.	7.1	77
31	Evidential Deep Learning for Guided Molecular Property Prediction and Discovery. <i>ACS Central Science</i> , 2021, 7, 1356-1367.	11.3	73
32	Harnessing Protease Activity to Improve Cancer Care. <i>Annual Review of Cancer Biology</i> , 2018, 2, 353-376.	4.5	70
33	Identification and Characterization of Receptor-Specific Peptides for siRNA Delivery. <i>ACS Nano</i> , 2012, 6, 8620-8631.	14.6	68
34	Two chemoattenuated PfSPZ malaria vaccines induce sterile hepatic immunity. <i>Nature</i> , 2021, 595, 289-294.	27.8	68
35	Engineering synthetic breath biomarkers for respiratory disease. <i>Nature Nanotechnology</i> , 2020, 15, 792-800.	31.5	59
36	Urinary detection of lung cancer in mice via noninvasive pulmonary protease profiling. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	58

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37	Classification of prostate cancer using a protease activity nanosensor library. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8954-8959.	7.1	53
38	iRGD-guided Tumor-penetrating Nanocomplexes for Therapeutic siRNA Delivery to Pancreatic Cancer. Molecular Cancer Therapeutics, 2018, 17, 2377-2388.	4.1	52
39	Activity-Based Diagnostics: An Emerging Paradigm for Disease Detection and Monitoring. Trends in Molecular Medicine, 2020, 26, 450-468.	6.7	51
40	Disease Detection by Ultrasensitive Quantification of Microdosed Synthetic Urinary Biomarkers. Journal of the American Chemical Society, 2014, 136, 13709-13714.	13.7	50
41	Mathematical framework for activity-based cancer biomarkers. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12627-12632.	7.1	50
42	Magnetically Actuated Protease Sensors for in Vivo Tumor Profiling. Nano Letters, 2016, 16, 6303-6310.	9.1	45
43	Microenvironment-triggered multimodal precision diagnostics. Nature Materials, 2021, 20, 1440-1448.	27.5	42
44	Non-viral delivery of CRISPR/Cas9 complex using CRISPR-GPS nanocomplexes. Nanoscale, 2019, 11, 21317-21323.	5.6	34
45	Sustained Release Synthetic Biomarkers for Monitoring Thrombosis and Inflammation Using Point-of-Care Compatible Readouts. Advanced Functional Materials, 2016, 26, 2919-2928.	14.9	28
46	Prenatal detection and mapping of a distal 8p deletion associated with congenital heart disease. Prenatal Diagnosis, 1999, 19, 863-867.	2.3	26
47	Targeting liver stage malaria with metformin. JCI Insight, 2019, 4, .	5.0	23
48	Protease activity sensors noninvasively classify bacterial infections and antibiotic responses. EBioMedicine, 2018, 38, 248-256.	6.1	22
49	Fusogenic porous silicon nanoparticles as a broad-spectrum immunotherapy against bacterial infections. Nanoscale Horizons, 2021, 6, 330-340.	8.0	17
50	Selective Permeabilization of Gram-Negative Bacterial Membranes Using Multivalent Peptide Constructs for Antibiotic Sensitization. ACS Infectious Diseases, 2021, 7, 721-732.	3.8	17
51	Peptide-based urinary monitoring of fibrotic nonalcoholic steatohepatitis by mass-barcoded activity-based sensors. Science Translational Medicine, 2021, 13, eabe8939.	12.4	17
52	Tumor-Penetrating Delivery of siRNA against TNF α to Human Vestibular Schwannomas. Scientific Reports, 2017, 7, 12922.	3.3	15
53	Activatable Zymography Probes Enable <i>In Situ</i> Localization of Protease Dysregulation in Cancer. Cancer Research, 2021, 81, 213-224.	0.9	15
54	Comparison of Modular PEG Incorporation Strategies for Stabilization of Peptide-siRNA Nanocomplexes. Bioconjugate Chemistry, 2016, 27, 2323-2331.	3.6	14

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55	Host protease activity classifies pneumonia etiology. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
56	Synthetic Circuit-Driven Expression of Heterologous Enzymes for Disease Detection. ACS Synthetic Biology, 2021, 10, 2231-2242.	3.8	5
57	Protease activity sensors enable real-time treatment response monitoring in lymphangiomyomatosis. European Respiratory Journal, 2022, 59, 2100664.	6.7	5
58	Identification of NQO2 As a Protein Target in Small Molecule Modulation of Hepatocellular Function. ACS Chemical Biology, 2021, 16, 1770-1778.	3.4	3
59	Assessing Porcine Liver-Derived Biomatrix for Hepatic Tissue Engineering. Tissue Engineering, 2004, 10, 1046-1053.	4.6	3
60	Protease Activity Analysis: A Toolkit for Analyzing Enzyme Activity Data. ACS Omega, 2022, 7, 24292-24301.	3.5	3