

# Gary B Braun

## List of Publications by Year in descending order

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64  
papers

5,434  
citations

66343

42  
h-index

123424

61  
g-index

65  
all docs

65  
docs citations

65  
times ranked

9085  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Ag@SiO <sub>2</sub> @Y <sub>2</sub> O <sub>3</sub> :Er Nanostructures for Bioimaging: Tuning of the Upconversion Fluorescence with Silver Nanoparticles. Journal of the American Chemical Society, 2010, 132, 2850-2851.	13.7	463
2	Mesoporous Multifunctional Upconversion Luminescent and Magnetic "Nanorattle" Materials for Targeted Chemotherapy. Nano Letters, 2012, 12, 61-67.	9.1	360
3	Surface-Enhanced Raman Spectroscopy for DNA Detection by Nanoparticle Assembly onto Smooth Metal Films. Journal of the American Chemical Society, 2007, 129, 6378-6379.	13.7	302
4	Antibiotic-loaded nanoparticles targeted to the site of infection enhance antibacterial efficacy. Nature Biomedical Engineering, 2018, 2, 95-103.	22.5	278
5	Laser-Activated Gene Silencing <i>via</i> Gold Nanoshell~siRNA Conjugates. ACS Nano, 2009, 3, 2007-2015.	14.6	267
6	Chemically Patterned Microspheres for Controlled Nanoparticle Assembly in the Construction of SERS Hot Spots. Journal of the American Chemical Society, 2007, 129, 7760-7761.	13.7	213
7	Transtumoral targeting enabled by a novel neuropilin-binding peptide. Oncogene, 2012, 31, 3754-3763.	5.9	203
8	Rapid Identification by Surface-Enhanced Raman Spectroscopy of Cancer Cells at Low Concentrations Flowing in a Microfluidic Channel. ACS Nano, 2015, 9, 4328-4336.	14.6	177
9	Generalized Approach to SERS-Active Nanomaterials via Controlled Nanoparticle Linking, Polymer Encapsulation, and Small-Molecule Infusion. Journal of Physical Chemistry C, 2009, 113, 13622-13629.	3.1	160
10	An endocytosis pathway initiated through neuropilin-1 and regulated by nutrient availability. Nature Communications, 2014, 5, 4904.	12.8	156
11	Etchable plasmonic nanoparticle probes to image and quantify cellular internalization. Nature Materials, 2014, 13, 904-911.	27.5	156
12	Mapping Local pH in Live Cells Using Encapsulated Fluorescent SERS Nanotags. Small, 2010, 6, 618-622.	10.0	151
13	A peptide for targeted, systemic delivery of imaging and therapeutic compounds into acute brain injuries. Nature Communications, 2016, 7, 11980.	12.8	138
14	Detection of Sequence-Specific Protein-DNA Interactions via Surface Enhanced Resonance Raman Scattering. Journal of the American Chemical Society, 2007, 129, 14572-14573.	13.7	137
15	A Heterogeneous PNA-Based SERS Method for DNA Detection. Journal of the American Chemical Society, 2007, 129, 6086-6087.	13.7	134
16	NMR Analysis of Surfaces and Interfaces in 2-nm CdSe. Journal of the American Chemical Society, 2004, 126, 7063-7070.	13.7	116
17	Rapid, Solution-Based Characterization of Optimized SERS Nanoparticle Substrates. Journal of the American Chemical Society, 2009, 131, 162-169.	13.7	100
18	Tumor-Penetrating iRGD Peptide Inhibits Metastasis. Molecular Cancer Therapeutics, 2015, 14, 120-128.	4.1	99

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19	Single-Order, Subwavelength Resonant Nanograting as a Uniformly Hot Substrate for Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 1780-1786.	9.1	83
20	Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti- <i>Pseudomonas aeruginosa</i> Lung Infections. <i>Advanced Materials</i> , 2017, 29, 1701527.	21.0	82
21	Controlled Spacing of Cationic Gold Nanoparticles by Nanocrown RNA. <i>Journal of the American Chemical Society</i> , 2005, 127, 11886-11887.	13.7	78
22	New p32/gC1qR Ligands for Targeted Tumor Drug Delivery. <i>ChemBioChem</i> , 2016, 17, 570-575.	2.6	75
23	Composite Porous Silicon-Silver Nanoparticles as Theranostic Antibacterial Agents. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30449-30457.	8.0	70
24	Neuropilin-1 and heparan sulfate proteoglycans cooperate in cellular uptake of nanoparticles functionalized by cationic cell-penetrating peptides. <i>Science Advances</i> , 2015, 1, e1500821.	10.3	68
25	Paclitaxel-Loaded Polymersomes for Enhanced Intraperitoneal Chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 670-679.	4.1	68
26	Graphene biointerfaces for optical stimulation of cells. <i>Science Advances</i> , 2018, 4, eaat0351.	10.3	68
27	Tumor-Targeted Multimodal Optical Imaging with Versatile Cadmium-Free Quantum Dots. <i>Advanced Functional Materials</i> , 2016, 26, 267-276.	14.9	65
28	A tumor-penetrating peptide enhances circulation-independent targeting of peritoneal carcinomatosis. <i>Journal of Controlled Release</i> , 2015, 212, 59-69.	9.9	62
29	Quantitative ratiometric discrimination between noncancerous and cancerous prostate cells based on neuropilin-1 overexpression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16559-16564.	7.1	60
30	Modular Plasmonic Nanocarriers for Efficient and Targeted Delivery of Cancer-Therapeutic siRNA. <i>Nano Letters</i> , 2014, 14, 2046-2051.	9.1	60
31	Novel methods of enhanced retention in and rapid, targeted release from liposomes. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 203-214.	7.4	57
32	A free cysteine prolongs the half-life of a homing peptide and improves its tumor-penetrating activity. <i>Journal of Controlled Release</i> , 2014, 175, 48-53.	9.9	56
33	In vivo cation exchange in quantum dots for tumor-specific imaging. <i>Nature Communications</i> , 2017, 8, 343.	12.8	56
34	Application of a Proapoptotic Peptide to Intratumorally Spreading Cancer Therapy. <i>Cancer Research</i> , 2013, 73, 1352-1361.	0.9	55
35	Clotting Activity of Polyphosphate-Functionalized Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4018-4022.	13.8	55
36	Identification of a peptide recognizing cerebrovascular changes in mouse models of Alzheimer's disease. <i>Nature Communications</i> , 2017, 8, 1403.	12.8	54

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37	Specific and sensitive detection of nucleic acids and RNases using gold nanoparticle- <sup>66</sup> RNA- <sup>66</sup> fluorescent dye conjugates. <i>Chemical Communications</i> , 2007, , 4342.	4.1	53
38	Advances in superresolution optical fluctuation imaging (SOFI). <i>Quarterly Reviews of Biophysics</i> , 2013, 46, 210-221.	5.7	49
39	Biotags Based on Surface-Enhanced Raman Can Be as Bright as Fluorescence Tags. <i>Nano Letters</i> , 2015, 15, 6745-6750.	9.1	49
40	Urokinase-controlled tumor penetrating peptide. <i>Journal of Controlled Release</i> , 2016, 232, 188-195.	9.9	46
41	Gold Nanoparticle Decoration of DNA on Silicon. <i>Langmuir</i> , 2005, 21, 10699-10701.	3.5	45
42	Robust SERS Enhancement Factor Statistics Using Rotational Correlation Spectroscopy. <i>Nano Letters</i> , 2012, 12, 2912-2917.	9.1	44
43	Cell-Targeted Self-Assembled DNA Nanostructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 14237-14239.	13.7	42
44	Light-activated RNA interference in human embryonic stem cells. <i>Biomaterials</i> , 2015, 63, 70-79.	11.4	38
45	Targeted Intracellular Delivery of Proteins with Spatial and Temporal Control. <i>Molecular Pharmaceutics</i> , 2015, 12, 600-609.	4.6	34
46	Quantity and accessibility for specific targeting of receptors in tumours. <i>Scientific Reports</i> , 2014, 4, 5232.	3.3	33
47	Targeted silver nanoparticles for ratiometric cell phenotyping. <i>Nanoscale</i> , 2016, 8, 9096-9101.	5.6	33
48	Quantitative multiplexed simulated-cell identification by SERS in microfluidic devices. <i>Nanoscale</i> , 2015, 7, 16834-16840.	5.6	32
49	Nanostructured Antagonist of Extrasynaptic NMDA Receptors. <i>Nano Letters</i> , 2016, 16, 5495-5502.	9.1	26
50	A feasible approach to all-electronic digital labeling and readout for cell identification. <i>Lab on A Chip</i> , 2007, 7, 469.	6.0	25
51	Enzyme-Directed Positioning of Nanoparticles on Large DNA Templates. <i>Bioconjugate Chemistry</i> , 2008, 19, 476-479.	3.6	21
52	Combined surface-enhanced Raman spectroscopy biotags and microfluidic platform for quantitative ratiometric discrimination between noncancerous and cancerous cells in flow. <i>Journal of Nanophotonics</i> , 2013, 7, 073092.	1.0	16
53	Modularized Gold Nanocarriers for TAT-Mediated Delivery of siRNA. <i>Small</i> , 2017, 13, 1602473.	10.0	16
54	Ratiometric in vivo auditioning of targeted silver nanoparticles. <i>Nanoscale</i> , 2017, 9, 10094-10100.	5.6	11

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55	Ag-nanoparticle fractionation by low melting point agarose gel electrophoresis. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	10
56	Silver Nanocarriers Targeted with a CendR Peptide Potentiate the Cytotoxic Activity of an Anticancer Drug. Advanced Therapeutics, 2021, 4, 2000097.	3.2	9
57	Screening for canine transitional cell carcinoma (TCC) by SERS-based quantitative urine cytology. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1279-1287.	3.3	8
58	Thermoswitchable Nanoparticles Based on Elastin-like Polypeptides. Macromolecules, 2015, 48, 5868-5877.	4.8	7
59	SERS Biotags (SBTs) for the Quantitative Ratiometric Discrimination between Noncancerous and Cancerous Prostate Cells. Materials Research Society Symposia Proceedings, 2012, 1468, 19.	0.1	2
60	Silicon Nanoparticles: Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections (Adv. Mater. 35/2017). Advanced Materials, 2017, 29, .	21.0	2
61	DDEL-19PENETRATION OF HOMING PEPTIDE-FUNCTIONALIZED NANOPARTICLES TO GLIOMA SPHEROIDS IN VITRO. Neuro-Oncology, 2015, 17, v77.3-v77.	1.2	1
62	Combined SERS biotags (SBTs) and microfluidic platform for the quantitative ratiometric discrimination between noncancerous and cancerous cells in flow. , 2012, , .		0
63	RNA Delivery: Modularized Gold Nanocarriers for TAT-Mediated Delivery of siRNA (Small 8/2017). Small, 2017, 13, .	10.0	0
64	Comment on Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-d-Aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. ACS Nano, 2021, 15, 15402-15408.	14.6	0