

# Bradley P Duncan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

1,933  
citations

22  
h-index

40  
g-index

40  
ext. papers

2,150  
ext. citations

9.6  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
40	Sodium Metasilicate-Based Inorganic Composite for Heterogeneous Integration of Microsystems. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2021</b> , 11, 144-152	1.7	
39	Demonstration of Environmentally Stable, Broadband Energy Dissipation via Multiple Metal Cross-Linked Glycerol Gels. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009118	15.6	4
38	A Low-Temperature Nickel Silicide Process for Wafer Bonding and High-Density Interconnects. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2020</b> , 10, 908-916	1.7	1
37	Solubilization of Hydrophobic Catalysts Using Nanoparticle Hosts. <i>Small</i> , <b>2018</b> , 14, 1702198	11	15
36	Progress Toward Diamond Power Field-Effect Transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800681	1.6	32
35	Enhanced Laser Desorption/Ionization Mass Spectrometric Detection of Biomolecules Using Gold Nanoparticles, Matrix, and the Coffee Ring Effect. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3009-3014	7.8	26
34	Sensing by Smell: Nanoparticle-Enzyme Sensors for Rapid and Sensitive Detection of Bacteria with Olfactory Output. <i>ACS Nano</i> , <b>2017</b> , 11, 5339-5343	16.7	30
33	Gradient and Patterned Protein Films Stabilized via Nanoimprint Lithography for Engineered Interactions with Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42-46	9.5	14
32	Biocidal and Antifouling Chlorinated Protein Films. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1862-1866	5.5	12
31	Nanoparticle-dendrimer hybrid nanocapsules for therapeutic delivery. <i>Nanomedicine</i> , <b>2016</b> , 11, 1571-8	5.6	19
30	Immunomodulatory effects of coated gold nanoparticles in LPS-stimulated and murine model systems. <i>CheM</i> , <b>2016</b> , 1, 320-327	16.2	27
29	Nanoparticle-Stabilized Capsules for the Treatment of Bacterial Biofilms. <i>ACS Nano</i> , <b>2015</b> , 9, 7775-82	16.7	134
28	Supramolecular regulation of bioorthogonal catalysis in cells using nanoparticle-embedded transition metal catalysts. <i>Nature Chemistry</i> , <b>2015</b> , 7, 597-603	17.6	300
27	Co-delivery of protein and small molecule therapeutics using nanoparticle-stabilized nanocapsules. <i>Bioconjugate Chemistry</i> , <b>2015</b> , 26, 950-4	6.3	65
26	The Interplay of Size and Surface Functionality on the Cellular Uptake of Sub-10 nm Gold Nanoparticles. <i>ACS Nano</i> , <b>2015</b> , 9, 9986-93	16.7	250
25	Bacteriophage-based nanoprobe for rapid bacteria separation. <i>Nanoscale</i> , <b>2015</b> , 7, 16230-6	7.7	39
24	Inkjet-printed gold nanoparticle surfaces for the detection of low molecular weight biomolecules by laser desorption/ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1931-7	3.5	25

23	Regulating exocytosis of nanoparticles via host-guest chemistry. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 2474-2479	3.9	27
22	Direct Cytosolic Delivery of siRNA Using Nanoparticle-Stabilized Nanocapsules. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 516-520	3.6	13
21	Hybrid organic-inorganic colloidal composite 'sponges' via internal crosslinking. <i>Small</i> , <b>2015</b> , 11, 1302-9	11	15
20	Direct cytosolic delivery of siRNA using nanoparticle-stabilized nanocapsules. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 506-10	16.4	42
19	Nanocomposites: Hybrid Organic-Inorganic Colloidal Composite Sponges Via Internal Crosslinking (Small 11/2015). <i>Small</i> , <b>2015</b> , 11, 1301-1301	11	
18	Fabrication of Robust Protein Films Using Nanoimprint Lithography. <i>Advanced Materials</i> , <b>2015</b> , 27, 6251-54	54	23
17	A Multichannel Biosensor for Rapid Determination of Cell Surface Glycomic Signatures. <i>ACS Central Science</i> , <b>2015</b> , 1, 191-197	16.8	32
16	Targeting bacterial biofilms via surface engineering of gold nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 105551-105559	51-59	37
15	Enhanced Laser Desorption/Ionization Mass Spectrometric Detection of Gold Nanoparticles in Biological Samples Using the Synergy between Added Matrix and the Gold Core. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 12145-50	7.8	11
14	Detection of bacteria using inkjet-printed enzymatic test strips. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19525-30	9.5	60
13	Immobilization and stabilization of lipase (CaLB) through hierarchical interfacial assembly. <i>Biomacromolecules</i> , <b>2014</b> , 15, 3915-22	6.9	39
12	Rapid coating of surfaces with functionalized nanoparticles for regulation of cell behavior. <i>Advanced Materials</i> , <b>2014</b> , 26, 3310-4	24	23
11	Triggered Nanoparticles as Therapeutics. <i>Nano Today</i> , <b>2013</b> , 8, 439-447	17.9	90
10	Replenishable dendrimer-nanoparticle hybrid membranes for sustained release of therapeutics. <i>Nanoscale</i> , <b>2013</b> , 5, 7805-8	7.7	8
9	Preparation of 2 nm gold nanoparticles for in vitro and in vivo applications. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1025, 3-8	1.4	11
8	Beyond Biomarkers: Identifying Cell State using Unbiased Nanosensor Arrays. <i>Nano Today</i> , <b>2012</b> , 7, 228-230	230	8
7	Differentiation of Hypocaust and Floor Tiles at Coriglia, Castel Viscardo (Umbria, Italy) Using Principal Component Analysis (PCA) and Portable X-ray Fluorescence (XRF) Spectrometry. <i>Applied Spectroscopy</i> , <b>2012</b> , 66, 1005-1012	3.1	11
6	Reusable biocatalytic crosslinked microparticles self-assembled from enzyme-nanoparticle complexes. <i>Chemical Communications</i> , <b>2011</b> , 47, 12077-9	5.8	30

5	Beauty is skin deep: a surface monolayer perspective on nanoparticle interactions with cells and bio-macromolecules. <i>Small</i> , <b>2011</b> , 7, 1903-18	11	69
4	Evaluation of data processing and analysis approaches for fresco pigment studies by portable X-ray fluorescence spectrometry and portable Raman spectroscopy. <i>Analytical Methods</i> , <b>2011</b> , 3, 1061	3.2	17
3	Direct photopatterning of light-activated gold nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14156		5
2	Gold nanoparticle platforms as drug and biomacromolecule delivery systems. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, 122-127	11.7	355
1	Comparisons of ancient mortars and hydraulic cements through in situ analyses by portable X-ray fluorescence spectrometry. <i>X-Ray Spectrometry</i> , <b>2010</b> , 39, 146-153	0.9	17