

# Philip D Howes

## List of Publications by Year in descending order

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44  
papers

3,500  
citations

218677

26  
h-index

276875

41  
g-index

49  
all docs

49  
docs citations

49  
times ranked

5459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal nanoparticles as advanced biological sensors. <i>Science</i> , 2014, 346, 1247390.	12.6	842
2	A review: On the development of low melting temperature Pb-free solders. <i>Microelectronics Reliability</i> , 2014, 54, 1253-1273.	1.7	347
3	Plasmonic nanomaterials for biodiagnostics. <i>Chemical Society Reviews</i> , 2014, 43, 3835-3853.	38.1	271
4	Phospholipid Encapsulated Semiconducting Polymer Nanoparticles: Their Use in Cell Imaging and Protein Attachment. <i>Journal of the American Chemical Society</i> , 2010, 132, 3989-3996.	13.7	206
5	Recent Advances in Droplet Microfluidics. <i>Analytical Chemistry</i> , 2020, 92, 132-149.	6.5	189
6	Magnetic Conjugated Polymer Nanoparticles as Bimodal Imaging Agents. <i>Journal of the American Chemical Society</i> , 2010, 132, 9833-9842.	13.7	164
7	A Serological Point-of-Care Test for the Detection of IgG Antibodies against Ebola Virus in Human Survivors. <i>ACS Nano</i> , 2018, 12, 63-73.	14.6	163
8	Droplet microfluidics: from proof-of-concept to real-world utility?. <i>Chemical Communications</i> , 2019, 55, 9895-9903.	4.1	93
9	An amplification-free ultra-sensitive electrochemical CRISPR/Cas biosensor for drug-resistant bacteria detection. <i>Chemical Science</i> , 2021, 12, 12733-12743.	7.4	71
10	Synthesis, characterisation and intracellular imaging of PEG capped BEHP-PPV nanospheres. <i>Chemical Communications</i> , 2009, , 2490.	4.1	70
11	An Exonuclease I-Assisted Silver-Metallized Electrochemical Aptasensor for Ochratoxin A Detection. <i>ACS Sensors</i> , 2019, 4, 1560-1568.	7.8	64
12	A review of Laser Powder Bed Fusion Additive Manufacturing of aluminium alloys: Microstructure and properties. <i>Additive Manufacturing</i> , 2021, 46, 102155.	3.0	63
13	Luminescent quantum-dot-sized conjugated polymer nanoparticles' nanoparticle formation in a miniemulsion system. <i>Journal of Materials Chemistry</i> , 2011, 21, 1797-1803.	6.7	60
14	Duplex-Specific Nuclease-Amplified Detection of MicroRNA Using Compact Quantum Dot' DNA Conjugates. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28290-28300.	8.0	59
15	Reinforcement Learning for Dynamic Microfluidic Control. <i>ACS Omega</i> , 2018, 3, 10084-10091.	3.5	58
16	Enzyme-Assisted Nucleic Acid Detection for Infectious Disease Diagnostics: Moving toward the Point-of-Care. <i>ACS Sensors</i> , 2020, 5, 2701-2723.	7.8	56
17	Fluorometric Paper-Based, Loop-Mediated Isothermal Amplification Devices for Quantitative Point-of-Care Detection of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). <i>ACS Sensors</i> , 2021, 6, 742-751.	7.8	53
18	Design tools for interdisciplinary translation of material experiences. <i>Materials and Design</i> , 2016, 90, 1228-1237.	7.0	49

#	ARTICLE	IF	CITATIONS
19	Microfluidic Synthesis of Luminescent and Plasmonic Nanoparticles: Fast, Efficient, and Data-Rich. <i>Advanced Materials Technologies</i> , 2020, 5, .	5.8	49
20	Synthesis and shape control of mercury selenide (HgSe) quantum dots. <i>Journal of Materials Chemistry</i> , 2008, 18, 3474.	6.7	48
21	Post-polymerisation functionalisation of conjugated polymer backbones and its application in multi-functional emissive nanoparticles. <i>Nature Communications</i> , 2018, 9, 3237.	12.8	48
22	Simple conjugated polymer nanoparticles as biological labels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 2751-2759.	2.1	44
23	The use of physical property data to predict the touch perception of materials. <i>Materials &amp; Design</i> , 2012, 42, 238-244.	5.1	43
24	Multi-Amplified Sensing of MicroRNA by a Small DNA Fragment-Driven Enzymatic Cascade Reaction. <i>ACS Sensors</i> , 2017, 2, 111-118.	7.8	38
25	A sample-in-digital-answer-out system for rapid detection and quantitation of infectious pathogens in bodily fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7019-7030.	3.7	37
26	MicroRNA Detection by DNA-Mediated Liposome Fusion. <i>ChemBioChem</i> , 2018, 19, 434-438.	2.6	35
27	Noble Metal Nanoparticle Biosensors: From Fundamental Studies toward Point-of-Care Diagnostics. <i>Accounts of Chemical Research</i> , 2022, 55, 593-604.	15.6	30
28	A nucleic acid strand displacement system for the multiplexed detection of tuberculosis-specific mRNA using quantum dots. <i>Nanoscale</i> , 2016, 8, 10087-10095.	5.6	28
29	Automated microfluidic screening of ligand interactions during the synthesis of cesium lead bromide nanocrystals. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1118-1130.	3.4	26
30	Tailoring Cellular Uptake of Conjugated Polymer Nanoparticles Using Modular Amphiphilic Peptide Capping Ligands. <i>Chemistry of Materials</i> , 2015, 27, 6879-6889.	6.7	25
31	Bright, near infrared emitting PLGA-PEG dye-doped CN-PPV nanoparticles for imaging applications. <i>RSC Advances</i> , 2017, 7, 15255-15264.	3.6	23
32	Detection of microRNA biomarkers <i>via</i> inhibition of DNA-mediated liposome fusion. <i>Nanoscale Advances</i> , 2019, 1, 532-536.	4.6	18
33	Rolling Circle Transcription-Amplified Hierarchically Structured Organic-Inorganic Hybrid RNA Flowers for Enzyme Immobilization. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22932-22940.	8.0	17
34	In Situ Nucleic Acid Amplification and Ultrasensitive Colorimetric Readout in a Paper-Based Analytical Device Using Silver Nanoplates. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001755.	7.6	17
35	The Perception of Materials through Oral Sensation. <i>PLoS ONE</i> , 2014, 9, e105035.	2.5	16
36	Broad-Band Spectrum, High-Sensitivity Absorbance Spectroscopy in Picoliter Volumes. <i>Analytical Chemistry</i> , 2021, 93, 7673-7681.	6.5	15

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37	Colloidal and optical stability of PEG-capped and phospholipid-encapsulated semiconducting polymer nanospheres in different aqueous media. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1159-1166.	2.9	14
38	An ultrasensitive non-noble metal colorimetric assay using starch-iodide complexation for Ochratoxin A detection. <i>Analytica Chimica Acta</i> , 2020, 1135, 29-37.	5.4	14
39	Precision tuning of rare-earth-doped upconversion nanoparticles via droplet-based microfluidic screening. <i>Journal of Materials Chemistry C</i> , 2021, 9, 925-933.	5.5	13
40	Tuning DNA- $\alpha$ -nanoparticle conjugate properties allows modulation of nuclease activity. <i>Nanoscale</i> , 2021, 13, 4956-4970.	5.6	9
41	The Sound and Taste of Materials. , 2014, , 39-49.		6
42	Long-armed hexapod nanocrystals of cesium lead bromide. <i>Nanoscale</i> , 2020, 12, 14808-14817.	5.6	1
43	Microfluidics: Microfluidic Synthesis of Luminescent and Plasmonic Nanoparticles: Fast, Efficient, and Data-Rich ( <i>Adv. Mater. Technol.</i> 7/2020). <i>Advanced Materials Technologies</i> , 2020, 5, 2070045.	5.8	0
44	A signal amplification strategy via enzymatic cascade reactions for ultrasensitive DNA detection. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	4.1	0