Helena de Puig

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9808030/publications.pdf

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26 papers	2,167 citations	430754 18 h-index	580701 25 g-index
27 all docs	27 docs citations	27 times ranked	3258 citing authors

#	Article	IF	Citations
1	Wearable materials with embedded synthetic biology sensors for biomolecule detection. Nature Biotechnology, 2021, 39, 1366-1374.	9.4	286
2	Multicolored silver nanoparticles for multiplexed disease diagnostics: distinguishing dengue, yellow fever, and Ebola viruses. Lab on A Chip, 2015, 15, 1638-1641.	3.1	269
3	Programmable CRISPR-responsive smart materials. Science, 2019, 365, 780-785.	6.0	248
4	Minimally instrumented SHERLOCK (miSHERLOCK) for CRISPR-based point-of-care diagnosis of SARS-CoV-2 and emerging variants. Science Advances, 2021, 7, .	4.7	189
5	Rapid antigen tests for dengue virus serotypes and Zika virus in patient serum. Science Translational Medicine, 2017, 9, .	5.8	148
6	Ultrasensitive CRISPR-based diagnostic for field-applicable detection of Plasmodium species in symptomatic and asymptomatic malaria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25722-25731.	3.3	146
7	Surface-Enhanced Raman Spectroscopy-Based Sandwich Immunoassays for Multiplexed Detection of Zika and Dengue Viral Biomarkers. ACS Infectious Diseases, 2017, 3, 767-776.	1.8	134
8	Optimizing the Properties of the Protein Corona Surrounding Nanoparticles for Tuning Payload Release. ACS Nano, 2013, 7, 10066-10074.	7.3	121
9	Extinction Coefficient of Gold Nanostars. Journal of Physical Chemistry C, 2015, 119, 17408-17415.	1.5	118
10	Challenges of the Nanoâ€“Bio Interface in Lateral Flow and Dipstick Immunoassays. Trends in Biotechnology, 2017, 35, 1169-1180.	4.9	89
11	Effect of the Protein Corona on Antibodyâ€“Antigen Binding in Nanoparticle Sandwich Immunoassays. Bioconjugate Chemistry, 2017, 28, 230-238.	1.8	58
12	Physical Properties of Biomolecules at the Nanomaterial Interface. Journal of Physical Chemistry B, 2018, 122, 2827-2840.	1.2	53
13	Creating CRISPR-responsive smart materials for diagnostics and programmable cargo release. Nature Protocols, 2020, 15, 3030-3063.	5.5	42
14	A comparison of nanoparticle-antibody conjugation strategies in sandwich immunoassays. Journal of Immunoassay and Immunochemistry, 2017, 38, 355-377.	0.5	41
15	Quantifying the Nanomachinery of the Nanoparticleâ€“Biomolecule Interface. Small, 2011, 7, 2477-2484.	5.2	38
16	RNA-responsive elements for eukaryotic translational control. Nature Biotechnology, 2022, 40, 539-545.	9.4	34
17	Design of SERS nanotags for multiplexed lateral flow immunoassays. Molecular Systems Design and Engineering, 2017, 2, 401-409.	1.7	32
18	Selective Light-Triggered Release of DNA from Gold Nanorods Switches Blood Clotting On and Off. PLoS ONE, 2013, 8, e68511.	1.1	29

#	Article	IF	Citations
19	Point-of-Care Devices to Detect Zika and Other Emerging Viruses. Annual Review of Biomedical Engineering, 2020, 22, 371-386.	5.7	20
20	Protease Degradation of Protein Coronas and Its Impact on Cancer Cells and Drug Payload Release. ACS Applied Materials & Interfaces, 2019, 11, 14588-14596.	4.0	15
21	Serotype-specific detection of dengue viruses in a nonstructural protein 1-based enzyme-linked immunosorbent assay validated with a multi-national cohort. PLoS Neglected Tropical Diseases, 2020, 14, e0008203.	1.3	15
22	Anomalous COVID-19 tests hinder researchers. Science, 2021, 371, 244-245.	6.0	11
23	Laboratory-Generated DNA Can Cause Anomalous Pathogen Diagnostic Test Results. Microbiology Spectrum, 2021, 9, e0031321.	1.2	10
24	Development and Validation of a Rapid Lateral Flow E1/E2-Antigen Test and ELISA in Patients Infected with Emerging Asian Strain of Chikungunya Virus in the Americas. Viruses, 2020, 12, 971.	1.5	8
25	DNA disPLAY: Programmable Bioactive Materials Using CNC Patterning. Architectural Design, 2014, 84, 104-111.	0.1	2
26	Multicolor rapid diagnostics for infectious disease. SPIE Newsroom, 0, , .	0.1	0