Richard W Roberts

List of Publications by Year
in descending order

35 papers	1,645 citations	361413 20 h-index	330143 37 g-index
37 all docs	37 docs citations	37 times ranked	1941 citing authors

#	Article	IF	Citations
1	Compatibility of Popular Three-Dimensional Printed Microfluidics Materials with In Vitro Enzymatic Reactions. ACS Applied Bio Materials, 2022, 5, 818-824.	4.6	8
2	Directed Evolution of PD-L1-Targeted Affibodies by mRNA Display. ACS Chemical Biology, 2022, 17, 1543-1555.	3.4	3
3	Directing evolution of novel ligands by mRNA display. Chemical Society Reviews, 2021, 50, 9055-9103.	38.1	31
4	Enabling Flow-Based Kinetic Off-Rate Selections Using a Microfluidic Enrichment Device. Analytical Chemistry, 2020, 92, 10218-10222.	6.5	4
5	mRNA Display Discovery of a Novel Programmed Death Ligand 1 (PD-L1) Binding Peptide (a Peptide Ligand) Tj ETQq1 1 0.784314 rgB	3.4	10
6	Broad-Spectrum Proteome Editing with an Engineered Bacterial Ubiquitin Ligase Mimic. ACS Central Science, 2019, 5, 852-866.	11.3	34
7	Discs large 1 controls daughter-cell polarity after cytokinesis in vertebrate morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10859-E10868.	7.1	14
8	Î±1-FANGs: Protein Ligands Selective for the Î±-Bungarotoxin Site of the Î±1-Nicotinic Acetylcholine Receptor. ACS Chemical Biology, 2018, 13, 2568-2576.	3.4	8
9	Identification, characterization and application of a new peptide against anterior gradient homolog 2 (AGR2). Oncotarget, 2018, 9, 27363-27379.	1.8	9
10	Automated, Resin-Based Method to Enhance the Specific Activity of Fluorine-18 Clicked PET Radiotracers. Bioconjugate Chemistry, 2017, 28, 583-589.	3.6	9
11	RasIns: Genetically Encoded Intrabodies of Activated Ras Proteins. Journal of Molecular Biology, 2017, 429, 562-573.	4.2	30
12	Highâ€Throughput Measurement of Binding Kinetics by mRNA Display and Nextâ€Generation Sequencing. Angewandte Chemie - International Edition, 2016, 55, 4007-4010.	13.8	37
13	Directed Evolution of Scanning Unnaturalâ€Proteaseâ€Resistant (SUPR) Peptides for in Vivo Applications. ChemBioChem, 2016, 17, 1643-1651.	2.6	32
14	G Protein-Coupled Receptors Incorporated into Rehydrated Diblock Copolymer Vesicles Retain Functionality. Small, 2016, 12, 5256-5260.	10.0	7
15	Highâ€Throughput Measurement of Binding Kinetics by mRNA Display and Nextâ€Generation Sequencing. Angewandte Chemie, 2016, 128, 4075-4078.	2.0	2
16	An E3-ligase-based method for ablating inhibitory synapses. Nature Methods, 2016, 13, 673-678.	19.0	43
17	General, Label-Free Method for Determining K_d and Ligand Concentration Simultaneously. Analytical Chemistry, 2015, 87, 11755-11762.	6.5	7
18	Robust, Quantitative Analysis of Proteins using Peptide Immunoreagents, in Vitro Translation, and an Ultrasensitive Acoustic Resonant Sensor. Analytical Chemistry, 2014, 86, 4715-4722.	6.5	6

#	Article	IF	Citations
19	Serum Stable Natural Peptides Designed by mRNA Display. Scientific Reports, 2014, 4, 6008.	3.3	59
20	Recombinant Probes Reveal Dynamic Localization of CaMKIIÎ± within Somata of Cortical Neurons. Journal of Neuroscience, 2013, 33, 14579-14590.	3.6	23
21	Antibody-Mimetic Ligand Selected by mRNA Display Targets DC-SIGN for Dendritic Cell-Directed Antigen Delivery. ACS Chemical Biology, 2013, 8, 967-977.	3.4	8
22	Recombinant Probes for Visualizing Endogenous Synaptic Proteins in Living Neurons. Neuron, 2013, 78, 971-985.	8.1	251
23	Singleâ€Round, Multiplexed Antibody Mimetic Design through mRNA Display. Angewandte Chemie - International Edition, 2012, 51, 12449-12453.	13.8	36
24	Rapid mRNAâ€Display Selection of an ILâ€6 Inhibitor Using Continuousâ€Flow Magnetic Separation. Angewandte Chemie - International Edition, 2011, 50, 8295-8298.	13.8	15
25	mRNA Display Design of Fibronectin-based Intrabodies That Detect and Inhibit Severe Acute Respiratory Syndrome Coronavirus Nucleocapsid Protein. Journal of Biological Chemistry, 2009, 284, 17512-17520.	3.4	42
26	Label-Free, Electrical Detection of the SARS Virus N-Protein with Nanowire Biosensors Utilizing Antibody Mimics as Capture Probes. ACS Nano, 2009, 3, 1219-1224.	14.6	203
27	In Vitro Selection of Protein and Peptide Libraries Using mRNA Display. Methods in Molecular Biology, 2009, 535, 293-314.	0.9	35
28	Evolution of Class-Specific Peptides Targeting a Hot Spot of the GÎ±s Subunit. Journal of Molecular Biology, 2008, 377, 1406-1418.	4.2	24
29	mRNA Display Selection of a High-Affinity, Modification-Specific Phospho-lÎºBÎ±-Binding Fibronectin. ACS Chemical Biology, 2008, 3, 480-485.	3.4	46
30	Design of Cyclic Peptides That Bind Protein Surfaces with Antibody-Like Affinity. ACS Chemical Biology, 2007, 2, 625-634.	3.4	130
31	Design, expression, and stability of a diverse protein library based on the human fibronectin type III domain. Protein Science, 2007, 16, 476-484.	7.6	46
32	A General Route for Post-Translational Cyclization of mRNA Display Libraries. Journal of the American Chemical Society, 2005, 127, 14142-14143.	13.7	96
33	In Vitro Selection of State-Specific Peptide Modulators of G Protein Signaling Using mRNA Display. Biochemistry, 2004, 43, 9265-9275.	2.5	52
34	mRNA display: ligand discovery, interaction analysis and beyond. Trends in Biochemical Sciences, 2003, 28, 159-165.	7.5	136
35	[19] Optimized synthesis of RNA-protein fusions for in vitro protein selection. Methods in Enzymology, 2000, 318, 268-293.	1.0	143