

Richard W Roberts

List of Publications by Year in descending order

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papers

1,645
citations

361413

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37
all docs

37
docs citations

37
times ranked

1941
citing authors

#	ARTICLE	IF	CITATIONS
1	Recombinant Probes for Visualizing Endogenous Synaptic Proteins in Living Neurons. <i>Neuron</i> , 2013, 78, 971-985.	8.1	251
2	Label-Free, Electrical Detection of the SARS Virus N-Protein with Nanowire Biosensors Utilizing Antibody Mimics as Capture Probes. <i>ACS Nano</i> , 2009, 3, 1219-1224.	14.6	203
3	[19] Optimized synthesis of RNA-protein fusions for in vitro protein selection. <i>Methods in Enzymology</i> , 2000, 318, 268-293.	1.0	143
4	mRNA display: ligand discovery, interaction analysis and beyond. <i>Trends in Biochemical Sciences</i> , 2003, 28, 159-165.	7.5	136
5	Design of Cyclic Peptides That Bind Protein Surfaces with Antibody-Like Affinity. <i>ACS Chemical Biology</i> , 2007, 2, 625-634.	3.4	130
6	A General Route for Post-Translational Cyclization of mRNA Display Libraries. <i>Journal of the American Chemical Society</i> , 2005, 127, 14142-14143.	13.7	96
7	Serum Stable Natural Peptides Designed by mRNA Display. <i>Scientific Reports</i> , 2014, 4, 6008.	3.3	59
8	In Vitro Selection of State-Specific Peptide Modulators of G Protein Signaling Using mRNA Display. <i>Biochemistry</i> , 2004, 43, 9265-9275.	2.5	52
9	Design, expression, and stability of a diverse protein library based on the human fibronectin type III domain. <i>Protein Science</i> , 2007, 16, 476-484.	7.6	46
10	mRNA Display Selection of a High-Affinity, Modification-Specific Phospho-Serine-Binding Fibronectin. <i>ACS Chemical Biology</i> , 2008, 3, 480-485.	3.4	46
11	An E3-ligase-based method for ablating inhibitory synapses. <i>Nature Methods</i> , 2016, 13, 673-678.	19.0	43
12	mRNA Display Design of Fibronectin-based Intrabodies That Detect and Inhibit Severe Acute Respiratory Syndrome Coronavirus Nucleocapsid Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 17512-17520.	3.4	42
13	High-Throughput Measurement of Binding Kinetics by mRNA Display and Next-Generation Sequencing. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4007-4010.	13.8	37
14	Single-Round, Multiplexed Antibody Mimetic Design through mRNA Display. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12449-12453.	13.8	36
15	In Vitro Selection of Protein and Peptide Libraries Using mRNA Display. <i>Methods in Molecular Biology</i> , 2009, 535, 293-314.	0.9	35
16	Broad-Spectrum Proteome Editing with an Engineered Bacterial Ubiquitin Ligase Mimic. <i>ACS Central Science</i> , 2019, 5, 852-866.	11.3	34
17	Directed Evolution of Scanning Unnatural-Protease-Resistant (SUPR) Peptides for in Vivo Applications. <i>ChemBioChem</i> , 2016, 17, 1643-1651.	2.6	32
18	Directing evolution of novel ligands by mRNA display. <i>Chemical Society Reviews</i> , 2021, 50, 9055-9103.	38.1	31

#	ARTICLE	IF	CITATIONS
19	RasIns: Genetically Encoded Intrabodies of Activated Ras Proteins. <i>Journal of Molecular Biology</i> , 2017, 429, 562-573.	4.2	30
20	Evolution of Class-Specific Peptides Targeting a Hot Spot of the G α s Subunit. <i>Journal of Molecular Biology</i> , 2008, 377, 1406-1418.	4.2	24
21	Recombinant Probes Reveal Dynamic Localization of CaMKII δ within Somata of Cortical Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 14579-14590.	3.6	23
22	Rapid mRNA Display Selection of an IL-6 Inhibitor Using Continuous-Flow Magnetic Separation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8295-8298.	13.8	15
23	Discs large 1 controls daughter-cell polarity after cytokinesis in vertebrate morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10859-E10868.	7.1	14
24	mRNA Display Discovery of a Novel Programmed Death Ligand 1 (PD-L1) Binding Peptide (a Peptide Ligand) Tj ETQq0,0 0 rgBT/Overlock	3.4	10
25	Automated, Resin-Based Method to Enhance the Specific Activity of Fluorine-18 Clicked PET Radiotracers. <i>Bioconjugate Chemistry</i> , 2017, 28, 583-589.	3.6	9
26	Identification, characterization and application of a new peptide against anterior gradient homolog 2 (AGR2). <i>Oncotarget</i> , 2018, 9, 27363-27379.	1.8	9
27	Antibody-Mimetic Ligand Selected by mRNA Display Targets DC-SIGN for Dendritic Cell-Directed Antigen Delivery. <i>ACS Chemical Biology</i> , 2013, 8, 967-977.	3.4	8
28	α 1-FANGs: Protein Ligands Selective for the α 1-Bungarotoxin Site of the α 1-Nicotinic Acetylcholine Receptor. <i>ACS Chemical Biology</i> , 2018, 13, 2568-2576.	3.4	8
29	Compatibility of Popular Three-Dimensional Printed Microfluidics Materials with In Vitro Enzymatic Reactions. <i>ACS Applied Bio Materials</i> , 2022, 5, 818-824.	4.6	8
30	General, Label-Free Method for Determining K_d and Ligand Concentration Simultaneously. <i>Analytical Chemistry</i> , 2015, 87, 11755-11762.	6.5	7
31	G Protein-Coupled Receptors Incorporated into Rehydrated Diblock Copolymer Vesicles Retain Functionality. <i>Small</i> , 2016, 12, 5256-5260.	10.0	7
32	Robust, Quantitative Analysis of Proteins using Peptide Immunoreagents, in Vitro Translation, and an Ultrasensitive Acoustic Resonant Sensor. <i>Analytical Chemistry</i> , 2014, 86, 4715-4722.	6.5	6
33	Enabling Flow-Based Kinetic Off-Rate Selections Using a Microfluidic Enrichment Device. <i>Analytical Chemistry</i> , 2020, 92, 10218-10222.	6.5	4
34	Directed Evolution of PD-L1-Targeted Affibodies by mRNA Display. <i>ACS Chemical Biology</i> , 2022, 17, 1543-1555.	3.4	3
35	High-Throughput Measurement of Binding Kinetics by mRNA Display and Next-Generation Sequencing. <i>Angewandte Chemie</i> , 2016, 128, 4075-4078.	2.0	2