

Richard Lerner

List of Publications by Year in descending order

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99
papers

6,984
citations

81839

39
h-index

60583

81
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107
all docs

107
docs citations

107
times ranked

7382
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutralizing Antibodies to SARS-CoV-2 Selected from a Human Antibody Library Constructed Decades Ago. <i>Advanced Science</i> , 2022, 9, e2102181.	5.6	14
2	Metal-Catalyzed One-Pot On-DNA Syntheses of Diarylmethane and Thioether Derivatives. <i>ACS Catalysis</i> , 2022, 12, 1639-1649.	5.5	20
3	Difluoromethylene Alkyne-Enabled Diverse C-H Functionalization and Application to the on-DNA Synthesis of Difluorinated Isocoumarins. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1959-1966.	7.2	55
4	Difluoromethylene Alkyne-Enabled Diverse C-H Functionalization and Application to the on-DNA Synthesis of Difluorinated Isocoumarins. <i>Angewandte Chemie</i> , 2021, 133, 1987-1994.	1.6	8
5	Antibody Libraries as Tools to Discover Functional Antibodies and Receptor Pleiotropism. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4123.	1.8	8
6	DNA-Encoded Libraries: Hydrazide as a Pluripotent Precursor for On-DNA Synthesis of Various Azole Derivatives. <i>Chemistry - A European Journal</i> , 2021, 27, 8214-8220.	1.7	8
7	Stereo- and regiodefined DNA-encoded chemical libraries enable efficient tumour-targeting applications. <i>Nature Chemistry</i> , 2021, 13, 540-548.	6.6	42
8	Selection of a picomolar antibody that targets CXCR2-mediated neutrophil activation and alleviates EAE symptoms. <i>Nature Communications</i> , 2021, 12, 2547.	5.8	11
9	A new immunochemical strategy for triple-negative breast cancer therapy. <i>Scientific Reports</i> , 2021, 11, 14875.	1.6	6
10	Avidity-Based Selection of Tissue-Specific CAR-T Cells from a Combinatorial Cellular Library of CARs. <i>Advanced Science</i> , 2021, 8, 2003091.	5.6	8
11	Antigen-Specific Stimulation and Expansion of CAR-T Cells Using Membrane Vesicles as Target Cell Surrogates. <i>Small</i> , 2021, 17, e2102643.	5.2	17
12	Immunity against cancer cells may promote their proliferation and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 426-431.	3.3	11
13	Innen-Äcktitelbild: A Chemistry for Incorporation of Selenium into DNA-Encoded Libraries (<i>Angew.</i>) Tj ETQq1 1 0.784314 0gBT /OV	1.6	16
14	A potent antagonist antibody targeting connexin hemichannels alleviates Clouston syndrome symptoms in mutant mice. <i>EBioMedicine</i> , 2020, 57, 102825.	2.7	20
15	Multiscale computation delivers organophosphorus reactivity and stereoselectivity to immunoglobulin scavengers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22841-22848.	3.3	13
16	A DNA-encoded library for the identification of natural product binders that modulate poly (ADP-ribose) polymerase 1, a validated anti-cancer target. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 241-248.	1.0	11
17	A Chemistry for Incorporation of Selenium into DNA-Encoded Libraries. <i>Angewandte Chemie</i> , 2020, 132, 13375-13382.	1.6	13
18	Inhibitory antibodies identify unique sites of therapeutic vulnerability in rhinovirus and other enteroviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13499-13508.	3.3	7

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19	Studies on the mechanism of general anesthesia. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13757-13766.	3.3	140
20	Different genetic barriers for resistance to HA stem antibodies in influenza H3 and H1 viruses. Science, 2020, 368, 1335-1340.	6.0	51
21	Selection of a Full Agonist Combinatorial Antibody that Rescues Leptin Deficiency In Vivo. Advanced Science, 2020, 7, 2000818.	5.6	8
22	Selection of Small Molecules that Bind to and Activate the Insulin Receptor from a DNA-Encoded Library of Natural Products. IScience, 2020, 23, 101197.	1.9	34
23	Agonist Antibody Converts Stem Cells into Migrating Brown Adipocyte-Like Cells in Heart. Cells, 2020, 9, 256.	1.8	4
24	A Chemistry for Incorporation of Selenium into DNA-Encoded Libraries. Angewandte Chemie - International Edition, 2020, 59, 13273-13280.	7.2	50
25	Reflections on DNA-encoded chemical libraries. Biochemical and Biophysical Research Communications, 2020, 527, 757-759.	1.0	6
26	Reply to van Swinderen and Hines: Drosophila model establishes the lipid membrane as a target of anesthetics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24629-24629.	3.3	1
27	A cell-cell interaction format for selection of high-affinity antibodies to membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14971-14978.	3.3	35
28	DNA-Encoded Libraries: Aryl Fluorosulfonates as Versatile Electrophiles Enabling Facile On-DNA Suzuki, Sonogashira, and Buchwald Reactions. Advanced Science, 2019, 6, 1901551.	5.6	84
29	Synthesis of <i>N</i> -Acyl Sulfamates from Fluorosulfonates and Potassium Trimethylsilyloxy Imidates. Journal of Organic Chemistry, 2019, 84, 15380-15388.	1.7	10
30	Phenotypic selection with an intrabody library reveals an anti-apoptotic function of PKM2 requiring Mitofusin-1. PLoS Biology, 2019, 17, e2004413.	2.6	14
31	Functionality-Independent DNA Encoding of Complex Natural Products. Angewandte Chemie - International Edition, 2019, 58, 9254-9261.	7.2	54
32	Functionality-Independent DNA Encoding of Complex Natural Products. Angewandte Chemie, 2019, 131, 9355-9362.	1.6	18
33	An agonist antibody prefers relapsed AML for induction of cells that kill each other. Scientific Reports, 2019, 9, 3494.	1.6	0
34	DNA-Encoded Chemical Libraries: A Selection System Based on Endowing Organic Compounds with Amplifiable Information. Annual Review of Biochemistry, 2018, 87, 479-502.	5.0	294
35	Migration-based selections of antibodies that convert bone marrow into trafficking microglia-like cells that reduce brain amyloid β . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E372-E381.	3.3	18
36	A complex epistatic network limits the mutational reversibility in the influenza hemagglutinin receptor-binding site. Nature Communications, 2018, 9, 1264.	5.8	58

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37	Autocrine-based selection of ligands for personalized CAR-T therapy of lymphoma. <i>Science Advances</i> , 2018, 4, eaau4580.	4.7	19
38	Selection of an ASIC1a-blocking combinatorial antibody that protects cells from ischemic death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7469-E7477.	3.3	48
39	Fully human agonist antibodies to TrkB using autocrine cell-based selection from a combinatorial antibody library. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7023-E7032.	3.3	33
40	Antibody selection using clonal cocultivation of <i>Escherichia coli</i> and eukaryotic cells in miniecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6145-E6151.	3.3	9
41	DNA-kodierte Verbindungsbibliotheken als Open Source: ein leistungsfähiger Weg zu neuen Wirkstoffen. <i>Angewandte Chemie</i> , 2017, 129, 1184-1185.	1.6	23
42	DNA-Encoded Compound Libraries as Open Source: A Powerful Pathway to New Drugs. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1164-1165.	7.2	102
43	A Proximity-Based Assay for Identification of Ligand and Membrane Protein Interaction in Living Cells. <i>Methods in Molecular Biology</i> , 2017, 1575, 215-222.	0.4	0
44	Immunochemical engineering of cell surfaces to generate virus resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4655-4660.	3.3	6
45	In vitro evolution of an influenza broadly neutralizing antibody is modulated by hemagglutinin receptor specificity. <i>Nature Communications</i> , 2017, 8, 15371.	5.8	55
46	Diversity of Functionally Permissive Sequences in the Receptor-Binding Site of Influenza Hemagglutinin. <i>Cell Host and Microbe</i> , 2017, 21, 742-753.e8.	5.1	59
47	Antibody 27F3 Broadly Targets Influenza A Group 1 and 2 Hemagglutinins through a Further Variation in VH1-69 Antibody Orientation on the HA Stem. <i>Cell Reports</i> , 2017, 20, 2935-2943.	2.9	103
48	Replacing reprogramming factors with antibodies selected from combinatorial antibody libraries. <i>Nature Biotechnology</i> , 2017, 35, 960-968.	9.4	34
49	Interferon- β is a master checkpoint regulator of cytokine-induced differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6867-E6874.	3.3	40
50	Design and Characterization of a Human Monoclonal Antibody that Modulates Mutant Connexin 26 Hemichannels Implicated in Deafness and Skin Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 298.	1.4	31
51	Titelbild: Autocrine-Based Selection of Drugs That Target Ion Channels from Combinatorial Venom Peptide Libraries (<i>Angew. Chem.</i> 32/2016). <i>Angewandte Chemie</i> , 2016, 128, 9245-9245.	1.6	0
52	Autocrine-Based Selection of Drugs That Target Ion Channels from Combinatorial Venom Peptide Libraries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9306-9310.	7.2	14
53	Combinatorial antibody libraries: new advances, new immunological insights. <i>Nature Reviews Immunology</i> , 2016, 16, 498-508.	10.6	90
54	Robotic QM/MM-driven maturation of antibody combining sites. <i>Science Advances</i> , 2016, 2, e1501695.	4.7	15

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55	Autocrine-Based Selection of Drugs That Target Ion Channels from Combinatorial Venom Peptide Libraries. <i>Angewandte Chemie</i> , 2016, 128, 9452-9456.	1.6	1
56	Activating pleiotropic receptors to kill cancer cells. <i>Cell Cycle</i> , 2016, 15, 158-159.	1.3	2
57	An agonist antibody that blocks autoimmunity by inducing anti-inflammatory macrophages. <i>FASEB Journal</i> , 2016, 30, 738-747.	0.2	13
58	Antibodies from combinatorial libraries use functional receptor pleiotropism to regulate cell fates. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 389-394.	2.4	16
59	Autocrine selection of a GLP-1R G-protein biased agonist with potent antidiabetic effects. <i>Nature Communications</i> , 2015, 6, 8918.	5.8	124
60	Selection of multiple agonist antibodies from intracellular combinatorial libraries reveals that cellular receptors are functionally pleiotropic. <i>Current Opinion in Chemical Biology</i> , 2015, 26, 1-7.	2.8	18
61	Regulation of NKT cell-mediated immune responses to tumours and liver inflammation by mitochondrial PGAM5-Drp1 signalling. <i>Nature Communications</i> , 2015, 6, 8371.	5.8	114
62	Agonist antibody that induces human malignant cells to kill one another. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6158-E6165.	3.3	16
63	A General Method for Insertion of Functional Proteins within Proteins via Combinatorial Selection of Permissive Junctions. <i>Chemistry and Biology</i> , 2015, 22, 1134-1143.	6.2	9
64	Prevention of Cell Death by Antibodies Selected from Intracellular Combinatorial Libraries. <i>Chemistry and Biology</i> , 2014, 21, 274-283.	6.2	35
65	A Structurally Distinct Human Mycoplasma Protein that Generically Blocks Antigen-Antibody Union. <i>Science</i> , 2014, 343, 656-661.	6.0	85
66	A proximity based general method for identification of ligand and receptor interactions in living cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 454, 251-255.	1.0	13
67	REGULATING CELLULAR LIFE DEATH AND DEVELOPMENT USING INTRACELLULAR COMBINATORIAL ANTIBODY LIBRARIES. , 2014, , .		0
68	Selecting Agonists from Single Cells Infected with Combinatorial Antibody Libraries. <i>Chemistry and Biology</i> , 2013, 20, 734-741.	6.2	46
69	Converting stem cells to dendritic cells by agonist antibodies from unbiased morphogenic selections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14966-14971.	3.3	34
70	Autocrine signaling based selection of combinatorial antibodies that transdifferentiate human stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8099-8104.	3.3	58
71	Selection of antibodies that regulate phenotype from intracellular combinatorial antibody libraries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15728-15733.	3.3	63
72	Cross-neutralization of influenza A viruses mediated by a single antibody loop. <i>Nature</i> , 2012, 489, 526-532.	13.7	434

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73	Rare antibodies from combinatorial libraries suggests an S.O.S. component of the human immunological repertoire. <i>Molecular BioSystems</i> , 2011, 7, 1004.	2.9	62
74	Manufacturing Immunity to Disease in a Test Tube: The Magic Bullet Realized. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8106-8125.	7.2	71
75	Combinatorial antibody libraries from cancer patients yield ligand-mimetic Arg-Gly-Asp-containing immunoglobulins that inhibit breast cancer metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17210-17215.	3.3	37
76	Ozone in biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3013-3015.	3.3	55
77	Preparation of Stilbene-Tethered Nonnatural Nucleosides for Use with Blue-Fluorescent Antibodies. <i>Journal of Organic Chemistry</i> , 2001, 66, 1725-1732.	1.7	28
78	Mitotic Misregulation and Human Aging. <i>Science</i> , 2000, 287, 2486-2492.	6.0	561
79	Convergence of Catalytic Antibody and Terpene Cyclase Mechanisms: Polyene Cyclization Directed by Carbocation- π Interactions. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1743-1747.	7.2	45
80	Broadening the Aldolase Catalytic Antibody Repertoire by Combining Reactive Immunization and Transition State Theory: New Enantio- and Diastereoselectivities. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3738-3741.	7.2	109
81	A Catalytic Enantioselective Route to Hydroxy-Substituted Quaternary Carbon Centers: α Resolution of Tertiary Aldols with a Catalytic Antibody. <i>Journal of the American Chemical Society</i> , 1999, 121, 7283-7291.	6.6	101
82	Structural Basis for Antibody Catalysis of a Disfavored Ring Closure Reaction. <i>Biochemistry</i> , 1999, 38, 7062-7074.	1.2	69
83	Enantioselective Aldol Cyclodehydrations Catalyzed by Antibody 38C2. <i>Organic Letters</i> , 1999, 1, 59-62.	2.4	86
84	Sets of Aldolase Antibodies with Antipodal Reactivities. Formal Synthesis of Epothilone E by Large-Scale Antibody-Catalyzed Resolution of Thiazole Aldol. <i>Organic Letters</i> , 1999, 1, 1623-1626.	2.4	42
85	Enantioselective Total Synthesis of Some Brevicomins Using Aldolase Antibody 38C2. <i>Chemistry - A European Journal</i> , 1998, 4, 881-885.	1.7	83
86	Catalytic Enantioselective Retro-Aldol Reactions: Kinetic Resolution of β^2 -Hydroxyketones with Aldolase Antibodies. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2481-2484.	7.2	100
87	Cofactor-Induced Refinement of Catalytic Antibody Activity: A Metal-Specific Allosteric Effect. <i>Journal of the American Chemical Society</i> , 1998, 120, 2963-2964.	6.6	23
88	Aldolase Antibodies of Remarkable Scope. <i>Journal of the American Chemical Society</i> , 1998, 120, 2768-2779.	6.6	233
89	Catalytic Enantioselective Retro-Aldol Reactions: Kinetic Resolution of β^2 -Hydroxyketones with Aldolase Antibodies. , 1998, 37, 2481.		1
90	Inhibition of Oleamide Hydrolase Catalyzed Hydrolysis of the Endogenous Sleep-Inducing Lipid cis-9-Octadecenamide. <i>Journal of the American Chemical Society</i> , 1996, 118, 5938-5945.	6.6	109

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91	Copying Nature's Mechanism for the Decarboxylation of β^2 -Keto Acids into Catalytic Antibodies by Reactive Immunization. <i>Journal of the American Chemical Society</i> , 1996, 118, 11720-11724.	6.6	65
92	The First Decade of Antibody Catalysis: Perspective and Prospects. <i>Israel Journal of Chemistry</i> , 1996, 36, 113-119.	1.0	22
93	Cationic cyclopropanation by antibody catalysis. <i>Nature</i> , 1996, 379, 326-327.	13.7	60
94	Molecular characterization of an enzyme that degrades neuromodulatory fatty-acid amides. <i>Nature</i> , 1996, 384, 83-87.	13.7	1,933
95	Antikörperkatalysierte Hydrolyse von Phosphorsäuretriestern. <i>Angewandte Chemie</i> , 1995, 107, 2448-2450.	1.6	1
96	An Antibody-Catalyzed 1,2-Rearrangement of Carbon-Carbon Bonds. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1607-1609.	4.4	23
97	Antikörperkatalysierte, enantioselektive Synthese im Grammsstab. <i>Angewandte Chemie</i> , 1994, 106, 485-486.	1.6	10
98	Antibody Catalysis of Glycosidic Bond Hydrolysis. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1711-1713.	4.4	59
99	Cellular and humoral immune responses to synthetic peptides deduced from the amino-acid sequences of Epstein-Barr virus-encoded proteins in EBV-transformed cells. <i>International Journal of Cancer</i> , 1987, 40, 455-460.	2.3	21