Shohei Koide

List of Publications by Year in descending order

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SHOHELKOIDE

#	Article	lF	CITATIONS
1	The fibronectin type III domain as a scaffold for novel binding proteins. Journal of Molecular Biology, 1998, 284, 1141-1151.	4.2	482
2	Visualization of arrestin recruitment by a G-protein-coupled receptor. Nature, 2014, 512, 218-222.	27.8	433
3	High-throughput Generation of Synthetic Antibodies from Highly Functional Minimalist Phage-displayed Libraries. Journal of Molecular Biology, 2007, 373, 924-940.	4.2	315
4	Inhibition of RAS function through targeting an allosteric regulatory site. Nature Chemical Biology, 2017, 13, 62-68.	8.0	237
5	The Importance of Being Tyrosine: Lessons in Molecular Recognition from Minimalist Synthetic Binding Proteins. ACS Chemical Biology, 2009, 4, 325-334.	3.4	172
6	Teaching an Old Scaffold New Tricks: Monobodies Constructed Using Alternative Surfaces of the FN3 Scaffold. Journal of Molecular Biology, 2012, 415, 393-405.	4.2	172
7	Helix, Sheet, and Polyproline II Frequencies and Strong Nearest Neighbor Effects in a Restricted Coil Library. Biochemistry, 2005, 44, 9691-9702.	2.5	165
8	High-affinity single-domain binding proteins with a binary-code interface. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6632-6637.	7.1	165
9	A potent and highly specific FN3 monobody inhibitor of the Abl SH2 domain. Nature Structural and Molecular Biology, 2010, 17, 519-527.	8.2	138
10	SHP2 inhibition diminishes KRASG12C cycling and promotes tumor microenvironment remodeling. Journal of Experimental Medicine, 2021, 218, .	8.5	138
11	Engineering of recombinant crystallization chaperones. Current Opinion in Structural Biology, 2009, 19, 449-457.	5.7	137
12	Phage display for engineering and analyzing protein interaction interfaces. Current Opinion in Structural Biology, 2007, 17, 481-487.	5.7	132
13	Probing protein conformational changes in living cells by using designer binding proteins: Application to the estrogen receptor. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1253-1258.	7.1	127
14	Structures of a Na ⁺ -coupled, substrate-bound MATE multidrug transporter. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2099-2104.	7.1	127
15	Monobodies and other synthetic binding proteins for expanding protein science. Protein Science, 2017, 26, 910-924.	7.6	127
16	Architecture of the fungal nuclear pore inner ring complex. Science, 2015, 350, 56-64.	12.6	125
17	Targeting the SH2-Kinase Interface in Bcr-Abl Inhibits Leukemogenesis. Cell, 2011, 147, 306-319.	28.9	122
18	Assessment of a method to characterize antibody selectivity and specificity for use in immunoprecipitation. Nature Methods, 2015, 12, 725-731.	19.0	109

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19	Crystal structures of a double-barrelled fluoride ion channel. Nature, 2015, 525, 548-551.	27.8	105
20	Microbial signatures in the lower airways of mechanically ventilated COVID-19 patients associated with poor clinical outcome. Nature Microbiology, 2021, 6, 1245-1258.	13.3	101
21	A High Through-put Platform for Recombinant Antibodies to Folded Proteins. Molecular and Cellular Proteomics, 2015, 14, 2833-2847.	3.8	100
22	Structural Basis for Regulation of GPR56/ADGRG1 by Its Alternatively Spliced Extracellular Domains. Neuron, 2016, 91, 1292-1304.	8.1	92
23	Generating conformation-specific synthetic antibodies to trap proteins in selected functional states. Methods, 2013, 60, 3-14.	3.8	89
24	Design of protein function leaps by directed domain interface evolution. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6578-6583.	7.1	88
25	Dissection of the BCR-ABL signaling network using highly specific monobody inhibitors to the SHP2 SH2 domains. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14924-14929.	7.1	85
26	Structural insights for engineering binding proteins based on non-antibody scaffolds. Current Opinion in Structural Biology, 2012, 22, 413-420.	5.7	84
27	T Cell Receptor-Like Recognition of Tumor In Vivo by Synthetic Antibody Fragment. PLoS ONE, 2012, 7, e43746.	2.5	81
28	A portable RNA sequence whose recognition by a synthetic antibody facilitates structural determination. Nature Structural and Molecular Biology, 2011, 18, 100-106.	8.2	75
29	A Dominant Conformational Role for Amino Acid Diversity in Minimalist Protein–Protein Interfaces. Journal of Molecular Biology, 2008, 381, 407-418.	4.2	72
30	Target-Binding Proteins Based on the 10th Human Fibronectin Type III Domain (10Fn3). Methods in Enzymology, 2012, 503, 135-156.	1.0	71
31	Monobodies: Antibody Mimics Based on the Scaffold of the Fibronectin Type III Domain. , 2007, 352, 95-110.		70
32	Broad Ranges of Affinity and Specificity of Anti-Histone Antibodies Revealed by a Quantitative Peptide Immunoprecipitation Assay. Journal of Molecular Biology, 2012, 424, 391-399.	4.2	67
33	Identification of MLKL membrane translocation as a checkpoint in necroptotic cell death using Monobodies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8468-8475.	7.1	64
34	Two Distinct Structures of Membraneâ€Associated Homodimers of GTP―and GDPâ€Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. Angewandte Chemie - International Edition, 2020, 59, 11037-11045.	13.8	62
35	<i>Stachel</i> -independent modulation of GPR56/ADGRG1 signaling by synthetic ligands directed to its extracellular region. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10095-10100.	7.1	61
36	Recombinant antibodies to histone post-translational modifications. Nature Methods, 2013, 10, 992-995.	19.0	58

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37	Conformational interconversion of MLKL and disengagement from RIPK3 precede cell death by necroptosis. Nature Communications, 2021, 12, 2211.	12.8	56
38	lsoform-specific monobody inhibitors of small ubiquitin-related modifiers engineered using structure-guided library design. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7751-7756.	7.1	55
39	Selective and noncovalent targeting of RAS mutants for inhibition and degradation. Nature Communications, 2021, 12, 2656.	12.8	51
40	ETO family protein Mtgr1 mediates Prdm14 functions in stem cell maintenance and primordial germ cell formation. ELife, 2015, 4, e10150.	6.0	51
41	Proof of dual-topology architecture of Fluc Fâ^² channels with monobody blockers. Nature Communications, 2014, 5, 5120.	12.8	47
42	Ensemble cryoEM elucidates the mechanism of insulin capture and degradation by human insulin degrading enzyme. ELife, 2018, 7, .	6.0	45
43	Structural Basis for Exquisite Specificity of Affinity Clamps, Synthetic Binding Proteins Generated through Directed Domain-interface Evolution. Journal of Molecular Biology, 2009, 392, 1221-1231.	4.2	44
44	Structural basis for the reaction cycle of DASS dicarboxylate transporters. ELife, 2020, 9, .	6.0	43
45	A synthetic intrabody-based selective and generic inhibitor of GPCR endocytosis. Nature Nanotechnology, 2017, 12, 1190-1198.	31.5	42
46	NMR identification of epitopes of lyme disease antigen OspA to monoclonal antibodies. Journal of Molecular Biology, 1998, 281, 61-67.	4.2	39
47	Epigenetic dysregulation by nickel through repressive chromatin domain disruption. Proceedings of the United States of America, 2014, 111, 14631-14636.	7.1	39
48	Antigen clasping by two antigen-binding sites of an exceptionally specific antibody for histone methylation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2092-2097.	7.1	39
49	Antibody isotype diversity against SARS-CoV-2 is associated with differential serum neutralization capacities. Scientific Reports, 2021, 11, 5538.	3.3	37
50	Allosteric modulation of a human protein kinase with monobodies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13937-13942.	7.1	36
51	Selective inhibition of STAT3 signaling using monobodies targeting the coiled-coil and N-terminal domains. Nature Communications, 2020, 11, 4115.	12.8	36
52	The structural basis of promiscuity in small multidrug resistance transporters. Nature Communications, 2020, 11, 6064.	12.8	35
53	Broad-Spectrum Proteome Editing with an Engineered Bacterial Ubiquitin Ligase Mimic. ACS Central Science, 2019, 5, 852-866.	11.3	34
54	Generation of new protein functions by nonhomologous combinations and rearrangements of domains and modules. Current Opinion in Biotechnology, 2009, 20, 398-404.	6.6	33

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55	Allosteric Inhibition of Bcr-Abl Kinase by High Affinity Monobody Inhibitors Directed to the Src Homology 2 (SH2)-Kinase Interface. Journal of Biological Chemistry, 2016, 291, 8836-8847.	3.4	33
56	Structural and functional dissection of the DH and PH domains of oncogenic Bcr-Abl tyrosine kinase. Nature Communications, 2017, 8, 2101.	12.8	33
57	Atomic structure of the eukaryotic intramembrane RAS methyltransferase ICMT. Nature, 2018, 553, 526-529.	27.8	33
58	Identification of a tetratricopeptide repeat-like domain in the nicastrin subunit of Î ³ -secretase using synthetic antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8534-8539.	7.1	32
59	Directed Network Wiring Identifies a Key Protein Interaction in Embryonic Stem Cell Differentiation. Molecular Cell, 2014, 54, 1034-1041.	9.7	32
60	A CLC-type F-/H+ antiporter in ion-swapped conformations. Nature Structural and Molecular Biology, 2018, 25, 601-606.	8.2	32
61	Next-generation antibodies for post-translational modifications. Current Opinion in Structural Biology, 2018, 51, 141-148.	5.7	32
62	Monobodies as enabling tools for structural and mechanistic biology. Current Opinion in Structural Biology, 2020, 60, 167-174.	5.7	31
63	Mechanism of disease and therapeutic rescue of Dok7 congenital myasthenia. Nature, 2021, 595, 404-408.	27.8	30
64	sNASP and ASF1A function through both competitive and compatible modes of histone binding. Nucleic Acids Research, 2017, 45, 643-656.	14.5	29
65	Targeting the α4-α5 interface of RAS results in multiple levels of inhibition. Small GTPases, 2019, 10, 378-387.	1.6	29
66	Facile target validation in an animal model with intracellularly expressed monobodies. Nature Chemical Biology, 2018, 14, 895-900.	8.0	27
67	Optimizing Production of Antigens and Fabs in the Context of Generating Recombinant Antibodies to Human Proteins. PLoS ONE, 2015, 10, e0139695.	2.5	26
68	Monobody-mediated alteration of enzyme specificity. Nature Chemical Biology, 2015, 11, 762-764.	8.0	25
69	Selective Targeting of SH2 Domain–Phosphotyrosine Interactions of Src Family Tyrosine Kinases with Monobodies. Journal of Molecular Biology, 2017, 429, 1364-1380.	4.2	25
70	BRAF inhibitors promote intermediate BRAF(V600E) conformations and binary interactions with activated RAS. Science Advances, 2019, 5, eaav8463.	10.3	25
71	Structural basis for inhibition of the drug efflux pump NorA from Staphylococcus aureus. Nature Chemical Biology, 2022, 18, 706-712.	8.0	23
72	Scalable High Throughput Selection From Phage-displayed Synthetic Antibody Libraries. Journal of Visualized Experiments, 2015, , 51492.	0.3	22

#	Article	IF	CITATIONS
73	Accelerating phage-display library selection by reversible and site-specific biotinylation. Protein Engineering, Design and Selection, 2009, 22, 685-690.	2.1	19
74	Zinc binding alters the conformational dynamics and drives the transport cycle of the cation diffusion facilitator YiiP. Journal of General Physiology, 2021, 153, .	1.9	14
75	Crystal structures of bacterial small multidrug resistance transporter EmrE in complex with structurally diverse substrates. ELife, 2022, 11, .	6.0	13
76	The ACE2-binding Interface of SARS-CoV-2 Spike Inherently Deflects Immune Recognition. Journal of Molecular Biology, 2021, 433, 166748.	4.2	12
77	Specific Recognition of a Single-Stranded RNA Sequence by a Synthetic Antibody Fragment. Journal of Molecular Biology, 2016, 428, 4100-4114.	4.2	11
78	Specific and direct modulation of the interaction between adhesion GPCR GPR56/ADGRG1 and tissue transglutaminase 2 using synthetic ligands. Scientific Reports, 2020, 10, 16912.	3.3	11
79	Targeting the KRAS α4-α5 allosteric interface inhibits pancreatic cancer tumorigenesis. Small GTPases, 2021, , 1-14.	1.6	11
80	Identification of the nucleotide-free state as a therapeutic vulnerability for inhibition of selected oncogenic RAS mutants. Cell Reports, 2022, 38, 110322.	6.4	11
81	Monobodies as tool biologics for accelerating target validation and druggable site discovery. RSC Medicinal Chemistry, 2021, 12, 1839-1853.	3.9	10
82	Multiplex bead binding assays using off-the-shelf components and common flow cytometers. Journal of Immunological Methods, 2021, 490, 112952.	1.4	10
83	Generation of High-Performance Binding Proteins for Peptide Motifs by Affinity Clamping. Methods in Enzymology, 2013, 523, 285-302.	1.0	7
84	Monobody-Mediated Alteration of Lipase Substrate Specificity. ACS Chemical Biology, 2018, 13, 1487-1492.	3.4	7
85	A Synthetic Antibody Fragment Targeting Nicastrin Affects Assembly and Trafficking of γ-Secretase. Journal of Biological Chemistry, 2014, 289, 34851-34861.	3.4	6
86	An Overlapping Region between the Two Terminal Folding Units of the Outer Surface Protein A (OspA) Controls Its Folding Behavior. Journal of Molecular Biology, 2018, 430, 1799-1813.	4.2	5
87	Two Distinct Structures of Membraneâ€Associated Homodimers of GTP―and GDPâ€Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. Angewandte Chemie, 2020, 132, 11130-11138.	2.0	5
88	Targeted rescue of cancer-associated IDH1 mutant activity using an engineered synthetic antibody. Scientific Reports, 2017, 7, 556.	3.3	4
89	Repurposing off-the-shelf antihelix antibodies for enabling structural biology. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17611-17613.	7.1	4
90	High-valency Anti-CD99 Antibodies Toward the Treatment of T Cell Acute Lymphoblastic Leukemia. Journal of Molecular Biology, 2022, 434, 167402.	4.2	3

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91	Engineering Binders with Exceptional Selectivity. Methods in Molecular Biology, 2022, 2491, 143-154.	0.9	3
92	Editorial overview: Engineering and design: Raising the bar through innovation and integration. Current Opinion in Structural Biology, 2014, 27, vi-viii.	5.7	0
93	Aromatic claw: A new fold with high aromatic content that evades structural prediction. Protein Science, 2017, 26, 208-217.	7.6	0
94	Raf kinase inhibitory protein protects cells against locostatinâ€mediated inhibition of migration. FASEB Journal, 2009, 23, 687.4.	0.5	0
95	Validation of Recombinant Antibodies Against Human Transcription Factors. FASEB Journal, 2015, 29, 571.13.	0.5	0
96	Comprehensive Analysis of the Structural, Biochemical and Signaling Differences of the p210 and p185 Isoforms of Bcr-Abl in CML and B-ALL. Blood, 2016, 128, 4238-4238.	1.4	0
97	STEM-09. DEFINING THE ROLE OF CD97 IN GLIOBLASTOMA STEM CELL SELF-RENEWAL. Neuro-Oncology, 2021, 23, vi22-vi23.	1.2	0