

Shohei Koide

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 papers	4,634 citations	36 h-index	67 g-index
107 ext. papers	5,616 ext. citations	11.4 avg, IF	5.56 L-index

#	Paper	IF	Citations
100	Identification of the nucleotide-free state as a therapeutic vulnerability for inhibition of selected oncogenic RAS mutants.. <i>Cell Reports</i> , 2022 , 38, 110322	10.6	2
99	Crystal structures of bacterial small multidrug resistance transporter EmrE in complex with structurally diverse substrates.. <i>ELife</i> , 2022 , 11,	8.9	1
98	Engineering Binders with Exceptional Selectivity.. <i>Methods in Molecular Biology</i> , 2022 , 2491, 143-154	1.4	0
97	STEM-09. DEFINING THE ROLE OF CD97 IN GLIOBLASTOMA STEM CELL SELF-RENEWAL. <i>Neuro-Oncology</i> , 2021 , 23, vi22-vi23	1	
96	High-valency Anti-CD99 Antibodies Toward the Treatment of T Cell Acute Lymphoblastic Leukemia.. <i>Journal of Molecular Biology</i> , 2021 , 434, 167402	6.5	0
95	SHP2 inhibition diminishes KRASG12C cycling and promotes tumor microenvironment remodeling. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	53
94	Multiplex bead binding assays using off-the-shelf components and common flow cytometers. <i>Journal of Immunological Methods</i> , 2021 , 490, 112952	2.5	4
93	Antibody isotype diversity against SARS-CoV-2 is associated with differential serum neutralization capacities. <i>Scientific Reports</i> , 2021 , 11, 5538	4.9	22
92	Discrete immune response signature to SARS-CoV-2 mRNA vaccination versus infection 2021 ,		6
91	Conformational interconversion of MLKL and disengagement from RIPK3 precede cell death by necroptosis. <i>Nature Communications</i> , 2021 , 12, 2211	17.4	19
90	Targeting the KRAS α - β allosteric interface inhibits pancreatic cancer tumorigenesis. <i>Small GTPases</i> , 2021 , 1-14	2.7	5
89	Selective and noncovalent targeting of RAS mutants for inhibition and degradation. <i>Nature Communications</i> , 2021 , 12, 2656	17.4	16
88	Mechanism of disease and therapeutic rescue of Dok7 congenital myasthenia. <i>Nature</i> , 2021 , 595, 404-408	30.4	5
87	Impaired Humoral Immunity to SARS-CoV-2 Vaccination in Non-Hodgkin Lymphoma and CLL Patients 2021 ,		9
86	Zinc binding alters the conformational dynamics and drives the transport cycle of the cation diffusion facilitator YjiP. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	2
85	The ACE2-binding Interface of SARS-CoV-2 Spike Inherently Deflects Immune Recognition. <i>Journal of Molecular Biology</i> , 2021 , 433, 166748	6.5	5
84	Monobodies as tool biologics for accelerating target validation and druggable site discovery. <i>RSC Medicinal Chemistry</i> , 2021 , 12, 1839-1853	3.5	2

83	Microbial signatures in the lower airways of mechanically ventilated COVID-19 patients associated with poor clinical outcome. <i>Nature Microbiology</i> , 2021 , 6, 1245-1258	26.6	24
82	Monobodies as enabling tools for structural and mechanistic biology. <i>Current Opinion in Structural Biology</i> , 2020 , 60, 167-174	8.1	15
81	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11037-11045	16.4	34
80	Identification of MLKL membrane translocation as a checkpoint in necroptotic cell death using Monobodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8468-8475	11.5	34
79	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. <i>Angewandte Chemie</i> , 2020 , 132, 11130-11138	3.6	3
78	Structural basis for the reaction cycle of DASS dicarboxylate transporters. <i>ELife</i> , 2020 , 9,	8.9	18
77	The ACE2-binding interface of SARS-CoV-2 Spike inherently deflects immune recognition 2020 ,		1
76	The structural basis of promiscuity in small multidrug resistance transporters. <i>Nature Communications</i> , 2020 , 11, 6064	17.4	11
75	Specific and direct modulation of the interaction between adhesion GPCR GPR56/ADGRG1 and tissue transglutaminase 2 using synthetic ligands. <i>Scientific Reports</i> , 2020 , 10, 16912	4.9	5
74	Selective inhibition of STAT3 signaling using monobodies targeting the coiled-coil and N-terminal domains. <i>Nature Communications</i> , 2020 , 11, 4115	17.4	16
73	Allosteric modulation of a human protein kinase with monobodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13937-13942	11.5	22
72	Broad-Spectrum Proteome Editing with an Engineered Bacterial Ubiquitin Ligase Mimic. <i>ACS Central Science</i> , 2019 , 5, 852-866	16.8	17
71	BRAF inhibitors promote intermediate BRAF(V600E) conformations and binary interactions with activated RAS. <i>Science Advances</i> , 2019 , 5, eaav8463	14.3	13
70	Repurposing off-the-shelf antihelix antibodies for enabling structural biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17611-17613	11.5	3
69	Targeting the Q-E interface of RAS results in multiple levels of inhibition. <i>Small GTPases</i> , 2019 , 10, 378-387	2.7	22
68	Atomic structure of the eukaryotic intramembrane RAS methyltransferase ICMT. <i>Nature</i> , 2018 , 553, 526-529	52.4	25
67	Facile target validation in an animal model with intracellularly expressed monobodies. <i>Nature Chemical Biology</i> , 2018 , 14, 895-900	11.7	16
66	Next-generation antibodies for post-translational modifications. <i>Current Opinion in Structural Biology</i> , 2018 , 51, 141-148	8.1	21

65	An Overlapping Region between the Two Terminal Folding Units of the Outer Surface Protein A (OspA) Controls Its Folding Behavior. <i>Journal of Molecular Biology</i> , 2018 , 430, 1799-1813	6.5	3
64	Monobody-Mediated Alteration of Lipase Substrate Specificity. <i>ACS Chemical Biology</i> , 2018 , 13, 1487-1492	4.9	3
63	Ensemble cryoEM elucidates the mechanism of insulin capture and degradation by human insulin degrading enzyme. <i>ELife</i> , 2018 , 7,	8.9	27
62	A CLC-type F/H antiporter in ion-swapped conformations. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 601-606	17.6	16
61	Monobodies and other synthetic binding proteins for expanding protein science. <i>Protein Science</i> , 2017 , 26, 910-924	6.3	85
60	Targeted rescue of cancer-associated IDH1 mutant activity using an engineered synthetic antibody. <i>Scientific Reports</i> , 2017 , 7, 556	4.9	4
59	Selective Targeting of SH2 Domain-Phosphotyrosine Interactions of Src Family Tyrosine Kinases with Monobodies. <i>Journal of Molecular Biology</i> , 2017 , 429, 1364-1380	6.5	18
58	A synthetic intrabody-based selective and generic inhibitor of GPCR endocytosis. <i>Nature Nanotechnology</i> , 2017 , 12, 1190-1198	28.7	27
57	sNASP and ASF1A function through both competitive and compatible modes of histone binding. <i>Nucleic Acids Research</i> , 2017 , 45, 643-656	20.1	14
56	-independent modulation of GPR56/ADGRG1 signaling by synthetic ligands directed to its extracellular region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10095-10100	11.5	39
55	Aromatic claw: A new fold with high aromatic content that evades structural prediction. <i>Protein Science</i> , 2017 , 26, 208-217	6.3	
54	Inhibition of RAS function through targeting an allosteric regulatory site. <i>Nature Chemical Biology</i> , 2017 , 13, 62-68	11.7	177
53	Structural and functional dissection of the DH and PH domains of oncogenic Bcr-Abl tyrosine kinase. <i>Nature Communications</i> , 2017 , 8, 2101	17.4	21
52	Structural Basis for Regulation of GPR56/ADGRG1 by Its Alternatively Spliced Extracellular Domains. <i>Neuron</i> , 2016 , 91, 1292-1304	13.9	54
51	Antigen clasping by two antigen-binding sites of an exceptionally specific antibody for histone methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2092-7	11.5	30
50	Comprehensive Analysis of the Structural, Biochemical and Signaling Differences of the p210 and p185 Isoforms of Bcr-Abl in CML and B-ALL. <i>Blood</i> , 2016 , 128, 4238-4238	2.2	
49	Allosteric Inhibition of Bcr-Abl Kinase by High Affinity Monobody Inhibitors Directed to the Src Homology 2 (SH2)-Kinase Interface. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8836-47	5.4	23
48	Specific Recognition of a Single-Stranded RNA Sequence by a Synthetic Antibody Fragment. <i>Journal of Molecular Biology</i> , 2016 , 428, 4100-4114	6.5	8

47	Assessment of a method to characterize antibody selectivity and specificity for use in immunoprecipitation. <i>Nature Methods</i> , 2015 , 12, 725-31	21.6	86
46	A High Through-put Platform for Recombinant Antibodies to Folded Proteins. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 2833-47	7.6	75
45	Architecture of the fungal nuclear pore inner ring complex. <i>Science</i> , 2015 , 350, 56-64	33.3	80
44	Monobody-mediated alteration of enzyme specificity. <i>Nature Chemical Biology</i> , 2015 , 11, 762-4	11.7	21
43	Crystal structures of a double-barrelled fluoride ion channel. <i>Nature</i> , 2015 , 525, 548-51	50.4	75
42	Scalable high throughput selection from phage-displayed synthetic antibody libraries. <i>Journal of Visualized Experiments</i> , 2015 , 51492	1.6	16
41	Optimizing Production of Antigens and Fabs in the Context of Generating Recombinant Antibodies to Human Proteins. <i>PLoS ONE</i> , 2015 , 10, e0139695	3.7	20
40	ETO family protein Mtgr1 mediates Prdm14 functions in stem cell maintenance and primordial germ cell formation. <i>ELife</i> , 2015 , 4, e10150	8.9	40
39	Validation of Recombinant Antibodies Against Human Transcription Factors. <i>FASEB Journal</i> , 2015 , 29, 571.13	0.9	
38	Proof of dual-topology architecture of Fluc F- channels with monobody blockers. <i>Nature Communications</i> , 2014 , 5, 5120	17.4	35
37	Visualization of arrestin recruitment by a G-protein-coupled receptor. <i>Nature</i> , 2014 , 512, 218-222	50.4	349
36	Directed network wiring identifies a key protein interaction in embryonic stem cell differentiation. <i>Molecular Cell</i> , 2014 , 54, 1034-41	17.6	29
35	A synthetic antibody fragment targeting nicastrin affects assembly and trafficking of β -secretase. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34851-61	5.4	5
34	Epigenetic dysregulation by nickel through repressive chromatin domain disruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14631-6	11.5	28
33	Generation of high-performance binding proteins for peptide motifs by affinity clamping. <i>Methods in Enzymology</i> , 2013 , 523, 285-302	1.7	7
32	Recombinant antibodies to histone post-translational modifications. <i>Nature Methods</i> , 2013 , 10, 992-5	21.6	51
31	Generating conformation-specific synthetic antibodies to trap proteins in selected functional states. <i>Methods</i> , 2013 , 60, 3-14	4.6	61
30	Dissection of the BCR-ABL signaling network using highly specific monobody inhibitors to the SHP2 SH2 domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14924-9	11.5	62

29	Structures of a Na ⁺ -coupled, substrate-bound MATE multidrug transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2099-104	11.5	111
28	Broad ranges of affinity and specificity of anti-histone antibodies revealed by a quantitative peptide immunoprecipitation assay. <i>Journal of Molecular Biology</i> , 2012 , 424, 391-9	6.5	57
27	Structural insights for engineering binding proteins based on non-antibody scaffolds. <i>Current Opinion in Structural Biology</i> , 2012 , 22, 413-20	8.1	69
26	Teaching an old scaffold new tricks: monobodies constructed using alternative surfaces of the FN3 scaffold. <i>Journal of Molecular Biology</i> , 2012 , 415, 393-405	6.5	135
25	Target-binding proteins based on the 10th human fibronectin type III domain (FN3). <i>Methods in Enzymology</i> , 2012 , 503, 135-56	1.7	63
24	T cell receptor-like recognition of tumor in vivo by synthetic antibody fragment. <i>PLoS ONE</i> , 2012 , 7, e43746	3.6	53
23	Identification of a tetratricopeptide repeat-like domain in the nicastrin subunit of β -secretase using synthetic antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8534-9	11.5	29
22	Targeting the SH2-kinase interface in Bcr-Abl inhibits leukemogenesis. <i>Cell</i> , 2011 , 147, 306-19	56.2	102
21	A portable RNA sequence whose recognition by a synthetic antibody facilitates structural determination. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 100-6	17.6	56
20	Isoform-specific monobody inhibitors of small ubiquitin-related modifiers engineered using structure-guided library design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7751-6	11.5	42
19	A potent and highly specific FN3 monobody inhibitor of the Abl SH2 domain. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 519-27	17.6	120
18	Accelerating phage-display library selection by reversible and site-specific biotinylation. <i>Protein Engineering, Design and Selection</i> , 2009 , 22, 685-90	1.9	17
17	Engineering of recombinant crystallization chaperones. <i>Current Opinion in Structural Biology</i> , 2009 , 19, 449-57	8.1	115
16	Generation of new protein functions by nonhomologous combinations and rearrangements of domains and modules. <i>Current Opinion in Biotechnology</i> , 2009 , 20, 398-404	11.4	30
15	Structural basis for exquisite specificity of affinity clamps, synthetic binding proteins generated through directed domain-interface evolution. <i>Journal of Molecular Biology</i> , 2009 , 392, 1221-31	6.5	40
14	The importance of being tyrosine: lessons in molecular recognition from minimalist synthetic binding proteins. <i>ACS Chemical Biology</i> , 2009 , 4, 325-34	4.9	132
13	Raf kinase inhibitory protein protects cells against locostatin-mediated inhibition of migration. <i>FASEB Journal</i> , 2009 , 23, 687.4	0.9	
12	A dominant conformational role for amino acid diversity in minimalist protein-protein interfaces. <i>Journal of Molecular Biology</i> , 2008 , 381, 407-18	6.5	65

11	Design of protein function leaps by directed domain interface evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6578-83	11.5	77
10	Phage display for engineering and analyzing protein interaction interfaces. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 481-7	8.1	117
9	High-affinity single-domain binding proteins with a binary-code interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6632-7	11.5	143
8	High-throughput generation of synthetic antibodies from highly functional minimalist phage-displayed libraries. <i>Journal of Molecular Biology</i> , 2007 , 373, 924-40	6.5	262
7	Monobodies: antibody mimics based on the scaffold of the fibronectin type III domain. <i>Methods in Molecular Biology</i> , 2007 , 352, 95-109	1.4	63
6	Helix, sheet, and polyproline II frequencies and strong nearest neighbor effects in a restricted coil library. <i>Biochemistry</i> , 2005 , 44, 9691-702	3.2	150
5	Probing protein conformational changes in living cells by using designer binding proteins: application to the estrogen receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1253-8	11.5	113
4	NMR identification of epitopes of Lyme disease antigen OspA to monoclonal antibodies. <i>Journal of Molecular Biology</i> , 1998 , 281, 61-7	6.5	32
3	The fibronectin type III domain as a scaffold for novel binding proteins. <i>Journal of Molecular Biology</i> , 1998 , 284, 1141-51	6.5	392
2	High titers of multiple antibody isotypes against the SARS-CoV-2 spike receptor-binding domain and nucleoprotein associate with better neutralization		5
1	Zinc Dependent Conformational Changes in the Cation Diffusion Facilitator YiiP from <i>S. oneidensis</i>		2