Yoichi Takakusagi

List of Publications by Year
in descending order

56	1,096	361413 20	454955 30
papers	citations	h-index	g-index

58	58	58	1504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lariatins, Novel Anti-mycobacterial Peptides with a Lasso Structure, Produced by Rhodococcus jostii K01-B0171. Journal of Antibiotics, 2007, 60, 357-363.	2.0	80
2	Pyruvate sensitizes pancreatic tumors to hypoxia-activated prodrug TH-302. Cancer & Metabolism, 2015, 3, 2.	5.0	69
3	13C-MR Spectroscopic Imaging with Hyperpolarized [1-13C]pyruvate Detects Early Response to Radiotherapy in SCC Tumors and HT-29 Tumors. Clinical Cancer Research, 2015, 21, 5073-5081.	7.0	54
4	Metabolic and Physiologic Imaging Biomarkers of the Tumor Microenvironment Predict Treatment Outcome with Radiation or a Hypoxia-Activated Prodrug in Mice. Cancer Research, 2018, 78, 3783-3792.	0.9	42
5	In VivoImaging of Tumor Physiological, Metabolic, and Redox Changes in Response to the Anti-Angiogenic Agent Sunitinib: Longitudinal Assessment to Identify Transient Vascular Renormalization. Antioxidants and Redox Signaling, 2014, 21, 1145-1155.	5.4	41
6	Direct Monitoring of Î³â€Glutamyl Transpeptidase Activity In Vivo Using a Hyperpolarized ¹³Câ€Labeled Molecular Probe. Angewandte Chemie - International Edition, 2016, 55, 10626-10629.	13.8	40
7	Design of a 15N Molecular Unit to Achieve Long Retention of Hyperpolarized Spin State. Scientific Reports, 2017, 7, 40104.	3.3	39
8	Design of a Hyperpolarized Molecular Probe for Detection of Aminopeptidase N Activity. Angewandte Chemie - International Edition, 2016, 55, 1765-1768.	13.8	36
9	Hyperpolarized [1-13C]-Pyruvate Magnetic Resonance Spectroscopic Imaging of Prostate Cancer In Vivo Predicts Efficacy of Targeting the Warburg Effect. Clinical Cancer Research, 2018, 24, 3137-3148.	7.0	36
10	Use of phage display technology for the determination of the targets for small-molecule therapeutics. Expert Opinion on Drug Discovery, 2010, 5, 361-389.	5.0	35
11	Identification and Characterization of the Direct Interaction between Methotrexate (MTX) and High-Mobility Group Box 1 (HMGB1) Protein. PLoS ONE, 2013, 8, e63073.	2.5	35
12	Pyruvate Induces Transient Tumor Hypoxia by Enhancing Mitochondrial Oxygen Consumption and Potentiates the Anti-Tumor Effect of a Hypoxia-Activated Prodrug TH-302. PLoS ONE, 2014, 9, e107995.	2.5	35
13	Design strategy for serine hydroxymethyltransferase probes based on retro-aldol-type reaction. Nature Communications, 2019, 10, 876.	12.8	31
14	Foam fractionation of protein: Correlation of protein adsorption onto bubbles with a pH-induced conformational transition. Analytical Biochemistry, 2011, 419, 173-179.	2.4	28
15	Radiotherapy Synergizes with the Hypoxia-Activated Prodrug Evofosfamide: In Vitro and In Vivo Studies. Antioxidants and Redox Signaling, 2018, 28, 131-140.	5.4	27
16	Design of a hyperpolarized¹⁵N NMR probe that induces a large chemical-shift change upon binding of calcium ions. Chemical Communications, 2015, 51, 12290-12292.	4.1	25
17	Camptothecin binds to a synthetic peptide identified by a T7 phage display screen. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4850-4853.	2.2	24
18	Identification of C10 biotinylated camptothecin (CPT-10-B) binding peptides using T7 phage display screen on a QCM device. Bioorganic and Medicinal Chemistry, 2007, 15, 7590-7598.	3.0	24

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19	Efficient one-cycle affinity selection of binding proteins or peptides specific for a small-molecule using a T7 phage display pool. Bioorganic and Medicinal Chemistry, 2008, 16, 9837-9846.	3.0	24
20	Design of Nuclear Magnetic Resonance Molecular Probes for Hyperpolarized Bioimaging. Angewandte Chemie - International Edition, 2021, 60, 14779-14799.	13.8	22
21	Heterogeneous Nucleation of Protein Crystals on Fluorinated Layered Silicate. PLoS ONE, 2011, 6, e22582.	2.5	21
22	Camptothecin (CPT) directly binds to human heterogeneous nuclear ribonucleoprotein A1 (hnRNP A1) and inhibits the hnRNP A1/topoisomerase I interaction. Bioorganic and Medicinal Chemistry, 2011, 19, 7690-7697.	3.0	21
23	Identification of trimannoside-recognizing peptide sequences from a T7 phage display screen using a QCM device. Bioorganic and Medicinal Chemistry, 2009, 17, 195-202.	3.0	20
24	Synthesis of a biotinylated camptothecin derivative and determination of the binding sequence by T7 phage display technology. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4846-4849.	2.2	17
25	Use of layer silicate for protein crystallization: Effects of Micromica and chlorite powders in hanging drops. Analytical Biochemistry, 2008, 373, 322-329.	2.4	17
26	Identification of Small Molecule Binding Molecules by Affinity Purification Using a Specific Ligand Immobilized on PEGA Resin. Bioconjugate Chemistry, 2008, 19, 2417-2426.	3.6	17
27	A Multimodal Molecular Imaging Study Evaluates Pharmacological Alteration of the Tumor Microenvironment to Improve Radiation Response. Cancer Research, 2018, 78, 6828-6837.	0.9	16
28	The antitumor agent doxorubicin binds to Fanconi anemia group F protein. Bioorganic and Medicinal Chemistry, 2012, 20, 6248-6255.	3.0	15
29	Identification of a methotrexate-binding peptide from a T7 phage display screen using a QCM device. Bioorganic and Medicinal Chemistry, 2008, 16, 7410-7414.	3.0	14
30	Ridaifen B, a tamoxifen derivative, directly binds to Grb10 interacting GYF protein 2. Bioorganic and Medicinal Chemistry, 2013, 21, 311-320.	3.0	14
31	Screening of a library of T7 phage-displayed peptides identifies alphaC helix in 14-3-3 protein as a CBP501-binding site. Bioorganic and Medicinal Chemistry, 2011, 19, 7049-7056.	3.0	12
32	A Strategy to Design Hyperpolarized ¹³C Magnetic Resonance Probes Using [1â€¹³C]Ì±â€Amino Acid as a Scaffold Structure. Chemistry - an Asian Journal, 2017, 12, 949-953.	3.3	12
33	Chemical properties of fatty acid derivatives as inhibitors of DNA polymerases. Organic and Biomolecular Chemistry, 2007, 5, 3912.	2.8	11
34	Two X family DNA polymerases, Î» and Î¼, in meiotic tissues of the basidiomycete, Coprinus cinereus. Chromosoma, 2007, 116, 545-556.	2.2	11
35	A Screening of a Library of T7 Phage-Displayed Peptide Identifies E2F-4 as an Etoposide-Binding Protein. Molecules, 2011, 16, 4278-4294.	3.8	11
36	Phage display technology for target determination of small-molecule therapeutics: an update. Expert Opinion on Drug Discovery, 2020, 15, 1199-1211.	5.0	11

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37	Design of a Hyperpolarized Molecular Probe for Detection of Aminopeptidase N Activity. Angewandte Chemie, 2016, 128, 1797-1800.	2.0	10
38	Structure-guided design enables development of a hyperpolarized molecular probe for the detection of aminopeptidase N activity in vivo. Science Advances, 2022, 8, eabj2667.	10.3	10
39	Multimodal biopanning of T7 phage-displayed peptides reveals angiomotin as a potential receptor of the anti-angiogenic macrolide Roxithromycin. European Journal of Medicinal Chemistry, 2015, 90, 809-821.	5.5	9
40	Intratumoral evaluation of 3D microvasculature and nanoparticle distribution using a gadolinium-dendron modified nano-liposomal contrast agent with magnetic resonance micro-imaging. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1315-1324.	3.3	9
41	Coenzyme Q10 as a potent compound that inhibits Cdt1â€“geminin interaction. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 203-213.	2.4	8
42	A sulfoglycolipid beta-sulfoquinovosyldiacylglycerol (ÂSQDG) binds to Met1-Arg95 region of murine DNA polymerase lambda (Mmpol Â) and inhibits its nuclear transit. Protein Engineering, Design and Selection, 2010, 23, 51-60.	2.1	8
43	Rational Design of [¹³C,D₁₄]Tertâ€butylbenzene as a Scaffold Structure for Designing Longâ€lived Hyperpolarized ¹³C Probes. Chemistry - an Asian Journal, 2018, 13, 280-283.	3.3	8
44	Binding region and interaction properties of sulfoquinovosylacylglycerol (SQAG) with human vascular endothelial growth factor 165 revealed by biosensor-based assays. MedChemComm, 2011, 2, 1188.	3.4	7
45	Exploration of the binding proteins of perfluorooctane sulfonate by a T7 phage display screen. Bioorganic and Medicinal Chemistry, 2012, 20, 3985-3990.	3.0	7
46	Mapping a Disordered Portion of the Brz2001-Binding Site on a Plant Monooxygenase, DWARF4, Using a Quartz-Crystal Microbalance Biosensor-Based T7 Phage Display. Assay and Drug Development Technologies, 2013, 11, 206-215.	1.2	7
47	Direct Monitoring of Î³â€Glutamyl Transpeptidase Activity In Vivo Using a Hyperpolarized 13 Câ€Labeled Molecular Probe. Angewandte Chemie, 2016, 128, 10784-10787.	2.0	7
48	Characterization of marine X-family DNA polymerases and comparative analysis of base excision repair proteins. Biochemical and Biophysical Research Communications, 2011, 415, 193-199.	2.1	6
49	Ridaifen G, tamoxifen analog, is a potent anticancer drug working through a combinatorial association with multiple cellular factors. Bioorganic and Medicinal Chemistry, 2015, 23, 6118-6124.	3.0	6
50	Using the QCM Biosensor-Based T7 Phage Display Combined with Bioinformatics Analysis for Target Identification of Bioactive Small Molecule. Methods in Molecular Biology, 2018, 1795, 159-172.	0.9	2
51	Total Synthesis of (-)-Neoechinulin A. Synlett, 2006, 2006, 0677-0680.	1.8	1
52	Effect of ionic interaction between a hyperpolarized magnetic resonance chemical probe and a gadolinium contrast agent for the hyperpolarized lifetime after dissolution. Journal of Magnetic Resonance, 2016, 270, 157-160.	2.1	1
53	Biosensor-based High Throughput Biopanning and Bioinformatics Analysis Strategy for the Global Validation of Drug-protein Interactions. Journal of Visualized Experiments, 2020, , .	0.3	1
54	The natural sulfoglycolipid derivative SQAP improves the therapeutic efficacy of tissue factor-targeted radioimmunotherapy in the stroma-rich pancreatic cancer model BxPC-3. Translational Oncology, 2022, 15, 101285.	3.7	1

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55	DNA polymerase mu interacts with a meiosis-specific RecA homolog Lim15 during meiosis in Coprinus cinereus. Biochemical and Biophysical Research Communications, 2009, 390, 32-37.	2.1	0
56	Entwicklung molekularer Sonden fÃ¼r die hyperpolarisierte NMRâ€Bildgebung im biologischen Bereich. Angewandte Chemie, 2021, 133, 14904-14925.	2.0	0