Itaru Hamachi

List of Publications by Year
in descending order

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275 papers	16,625 citations	12303 69 h-index	19690 117 g-index
295 all docs	295 docs citations	295 times ranked	13665 citing authors

#	Article	IF	Citations
1	Semi-wet peptide/protein array using supramolecular hydrogel. Nature Materials, 2004, 3, 58-64.	13.3	546
2	Installing logic-gate responses to a variety of biological substances in supramolecular hydrogelâ€“enzyme hybrids. Nature Chemistry, 2014, 6, 511-518.	6.6	370
3	Molecular Recognition and Fluorescence Sensing of Monophosphorylated Peptides in Aqueous Solution by Bis(zinc(II)â^'dipicolylamine)-Based Artificial Receptors. Journal of the American Chemical Society, 2004, 126, 2454-2463.	6.6	358
4	First Artificial Receptors and Chemosensors toward Phosphorylated Peptide in Aqueous Solution. Journal of the American Chemical Society, 2002, 124, 6256-6258.	6.6	347
5	Selective and direct inhibition of TRPC3 channels underlies biological activities of a pyrazole compound. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5400-5405.	3.3	344
6	First Thermally Responsive Supramolecular Polymer Based on Glycosylated Amino Acid. Journal of the American Chemical Society, 2002, 124, 10954-10955.	6.6	337
7	Ligand-directed tosyl chemistry for protein labeling in vivo. Nature Chemical Biology, 2009, 5, 341-343.	3.9	318
8	Turn-On Fluorescence Sensing of Nucleoside Polyphosphates Using a Xanthene-Based Zn(II) Complex Chemosensor. Journal of the American Chemical Society, 2008, 130, 12095-12101.	6.6	302
9	Supramolecular Hydrogel Exhibiting Four Basic Logic Gate Functions To Fine-Tune Substance Release. Journal of the American Chemical Society, 2009, 131, 5580-5585.	6.6	295
10	Protein Organic Chemistry and Applications for Labeling and Engineering in Liveâ€Cell Systems. Angewandte Chemie - International Edition, 2013, 52, 4088-4106.	7.2	284
11	Molecular recognition, fluorescence sensing, and biological assay of phosphate anion derivatives using artificial Zn(<scp>ii</scp>)â€“Dpa complexes. Chemical Communications, 2009, , 141-152.	2.2	239
12	Rational Design of FRET-Based Ratiometric Chemosensors for in Vitro and in Cell Fluorescence Analyses of Nucleoside Polyphosphates. Journal of the American Chemical Society, 2010, 132, 13290-13299.	6.6	230
13	Chemistry for Covalent Modification of Endogenous/Native Proteins: From Test Tubes to Complex Biological Systems. Journal of the American Chemical Society, 2019, 141, 2782-2799.	6.6	222
14	Photo Gelâ€“Sol/Solâ€“Gel Transition and Its Patterning of a Supramolecular Hydrogel as Stimuliâ€Responsive Biomaterials. Chemistry - A European Journal, 2008, 14, 3977-3986.	1.7	208
15	Genetically encoded fluorescent thermosensors visualize subcellular thermoregulation in living cells. Nature Methods, 2013, 10, 1232-1238.	9.0	207
16	Self-assembling nanoprobes that display off/on 19F nuclear magnetic resonance signals for protein detection and imaging. Nature Chemistry, 2009, 1, 557-561.	6.6	204
17	Development of Highly Sensitive Fluorescent Probes for Detection of Intracellular Copper(I) in Living Systems. Journal of the American Chemical Society, 2010, 132, 5938-5939.	6.6	203
18	Fluorescence Imaging of Intracellular Cadmium Using a Dual-Excitation Ratiometric Chemosensor. Journal of the American Chemical Society, 2008, 130, 12564-12565.	6.6	197

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19	In situ real-time imaging of self-sorted supramolecular nanofibres. Nature Chemistry, 2016, 8, 743-752.	6.6	191
20	Rational Molecular Design of Stimulusâ€Responsive Supramolecular Hydrogels Based on Dipeptides. Advanced Materials, 2011, 23, 2819-2822.	11.1	183
21	Molecular Recognition in a Supramolecular Hydrogel to Afford a Semi-Wet Sensor Chip. Journal of the American Chemical Society, 2004, 126, 12204-12205.	6.6	175
22	Bis(Dpa-ZnII) Appended Xanthone: Excitation Ratiometric Chemosensor for Phosphate Anions. Angewandte Chemie - International Edition, 2006, 45, 5518-5521.	7.2	174
23	MCMâ˜Enzymeâ˜Supramolecular Hydrogel Hybrid as a Fluorescence Sensing Material for Polyanions of Biological Significance. Journal of the American Chemical Society, 2009, 131, 5321-5330.	6.6	168
24	Fluorescent BODIPY-Based Zn(II) Complex as a Molecular Probe for Selective Detection of Neurofibrillary Tangles in the Brains of Alzheimerâ€™s Disease Patients. Journal of the American Chemical Society, 2009, 131, 6543-6548.	6.6	168
25	Oligo-Asp Tag/Zn(II) Complex Probe as a New Pair for Labeling and Fluorescence Imaging of Proteins. Journal of the American Chemical Society, 2006, 128, 10452-10459.	6.6	166
26	Ligand-Directed Acyl Imidazole Chemistry for Labeling of Membrane-Bound Proteins on Live Cells. Journal of the American Chemical Society, 2012, 134, 3961-3964.	6.6	161
27	Montmorilloniteâ˜Supramolecular Hydrogel Hybrid for Fluorocolorimetric Sensing of Polyamines. Journal of the American Chemical Society, 2011, 133, 1670-1673.	6.6	159
28	Design Strategies of Stimuli-Responsive Supramolecular Hydrogels Relying on Structural Analyses and Cell-Mimicking Approaches. Accounts of Chemical Research, 2017, 50, 740-750.	7.6	159
29	Specific Cell Surface Protein Imaging by Extended Self-Assembling Fluorescent Turn-on Nanoprobes. Journal of the American Chemical Society, 2012, 134, 13386-13395.	6.6	158
30	pH-Responsive Shrinkage/Swelling of a Supramolecular Hydrogel Composed of Two Small Amphiphilic Molecules. Chemistry - A European Journal, 2005, 11, 1130-1136.	1.7	156
31	An adaptive supramolecular hydrogel comprising self-sorting double nanofibre networks. Nature Nanotechnology, 2018, 13, 165-172.	15.6	151
32	Organelle-Localizable Fluorescent Chemosensors for Site-Specific Multicolor Imaging of Nucleoside Polyphosphate Dynamics in Living Cells. Journal of the American Chemical Society, 2012, 134, 18779-18789.	6.6	148
33	Cooperation between Artificial Receptors and Supramolecular Hydrogels for Sensing and Discriminating Phosphate Derivatives. Journal of the American Chemical Society, 2005, 127, 11835-11841.	6.6	143
34	A Fluorescent Lectin Array Using Supramolecular Hydrogel for Simple Detection and Pattern Profiling for Various Glycoconjugates. Journal of the American Chemical Society, 2006, 128, 10413-10422.	6.6	139
35	Combinatorial Library of Low Molecular-Weight Organo- and Hydrogelators Based on Glycosylated Amino Acid Derivatives by Solid-Phase Synthesis. Chemistry - A European Journal, 2003, 9, 976-983.	1.7	134
36	Rapid labelling and covalent inhibition of intracellular native proteins using ligand-directed N-acyl-N-alkyl sulfonamide. Nature Communications, 2018, 9, 1870.	5.8	133

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37	Construction of Artificial Photosynthetic Reaction Centers on a Protein Surface:Â Vectorial, Multistep, and Proton-Coupled Electron Transfer for Long-Lived Charge Separation. Journal of the American Chemical Society, 2000, 122, 241-253.	6.6	132
38	Target-Specific Chemical Acylation of Lectins by Ligand-Tethered DMAP Catalysts. Journal of the American Chemical Society, 2008, 130, 245-251.	6.6	131
39	Efficient fluorescent ATP-sensing based on coordination chemistry under aqueous neutral conditions. Tetrahedron Letters, 2002, 43, 6193-6195.	0.7	125
40	Protein recognition using synthetic small-molecular binders toward optical protein sensing in vitro and in live cells. Chemical Society Reviews, 2015, 44, 4454-4471.	18.7	121
41	One-Pot and Sequential Organic Chemistry on an Enzyme Surface to Tether a Fluorescent Probe at the Proximity of the Active Site with Restoring Enzyme Activity. Journal of the American Chemical Society, 2006, 128, 3273-3280.	6.6	120
42	Chemically Reactive Supramolecular Hydrogel Coupled with a Signal Amplification System for Enhanced Analyte Sensitivity. Journal of the American Chemical Society, 2015, 137, 3360-3365.	6.6	119
43	Erythroselectivity in addition of Î³-substituted allylsilanes to aldehydes in the presence of titanium chloride. Tetrahedron Letters, 1983, 24, 2865-2868.	0.7	114
44	Cross-Linking Strategy for Molecular Recognition and Fluorescent Sensing of a Multi-phosphorylated Peptide in Aqueous Solution. Journal of the American Chemical Society, 2003, 125, 10184-10185.	6.6	107
45	Disassembly-Driven Turn-On Fluorescent Nanoprobes for Selective Protein Detection. Journal of the American Chemical Society, 2010, 132, 7291-7293.	6.6	107
46	A General Semisynthetic Method for Fluorescent Saccharide-Biosensors Based on a Lectin. Journal of the American Chemical Society, 2000, 122, 12065-12066.	6.6	105
47	Bacteria Interface Pickering Emulsions Stabilized by Self-assembled Bacteriaâ€“Chitosan Network. Langmuir, 2012, 28, 5729-5736.	1.6	105
48	Chemical Cell-Surface Receptor Engineering Using Affinity-Guided, Multivalent Organocatalysts. Journal of the American Chemical Society, 2011, 133, 12220-12228.	6.6	102
49	Non-enzymatic Covalent Protein Labeling Using a Reactive Tag. Journal of the American Chemical Society, 2007, 129, 15777-15779.	6.6	101
50	Design of Dual-Emission Chemosensors for Ratiometric Detection of ATP Derivatives. Chemistry - an Asian Journal, 2006, 1, 555-563.	1.7	99
51	Recent Progress in Strategies for the Creation of Proteinâ€Based Fluorescent Biosensors. ChemBioChem, 2009, 10, 2560-2577.	1.3	98
52	Synthesis of side-chain derivatives of 2,2'-bipyridine. Journal of Organic Chemistry, 1989, 54, 1731-1735.	1.7	95
53	Selective Covalent Labeling of Tag-Fused GPCR Proteins on Live Cell Surface with a Synthetic Probe for Their Functional Analysis. Journal of the American Chemical Society, 2010, 132, 9301-9309.	6.6	93
54	Recent Progress in Design of Protein-Based Fluorescent Biosensors and Their Cellular Applications. ACS Chemical Biology, 2014, 9, 2708-2717.	1.6	93

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55	Selective and reversible modification of kinase cysteines with chlorofluoroacetamides. Nature Chemical Biology, 2019, 15, 250-258.	3.9	90
56	Supramolecular hydrogel-based protein and chemosensor array. Lab on A Chip, 2010, 10, 3325.	3.1	89
57	Effective Disruption of Phosphoproteinâ^'Protein Surface Interaction Using Zn(II) Dipicolylamine-Based Artificial Receptors via Two-Point Interaction. Journal of the American Chemical Society, 2006, 128, 2052-2058.	6.6	88
58	Traceless Affinity Labeling of Endogenous Proteins for Functional Analysis in Living Cells. Accounts of Chemical Research, 2012, 45, 1460-1469.	7.6	87
59	Suzuki coupling for protein modification. Tetrahedron Letters, 2005, 46, 3301-3305.	0.7	85
60	Native FKBP12 Engineering by Ligand-Directed Tosyl Chemistry: Labeling Properties and Application to Photo-Cross-Linking of Protein Complexes in Vitro and in Living Cells. Journal of the American Chemical Society, 2012, 134, 2216-2226.	6.6	81
61	Synthetic Self-Localizing Ligands That Control the Spatial Location of Proteins in Living Cells. Journal of the American Chemical Society, 2013, 135, 12684-12689.	6.6	80
62	Label-Free, Real-Time Glycosyltransferase Assay Based on a Fluorescent Artificial Chemosensor. Angewandte Chemie - International Edition, 2006, 45, 665-668.	7.2	77
63	Quenched Ligand-Directed Tosylate Reagents for One-Step Construction of Turn-On Fluorescent Biosensors. Journal of the American Chemical Society, 2009, 131, 9046-9054.	6.6	77
64	Functional conversion of myoglobin bound to synthetic bilayer membranes: from dioxygen storage protein to redox enzyme. Journal of the American Chemical Society, 1991, 113, 9625-9630.	6.6	76
65	Validating subcellular thermal changes revealed by fluorescent thermosensors. Nature Methods, 2015, 12, 801-802.	9.0	76
66	Supramolecular hydrogel capsule showing prostate specific antigen-responsive function for sensing and targeting prostate cancer cells. Chemical Science, 2010, 1, 491.	3.7	75
67	Chemical labelling for visualizing native AMPA receptors in live neurons. Nature Communications, 2017, 8, 14850.	5.8	75
68	Recent Progress in Chemical Modification of Proteins. Analytical Sciences, 2019, 35, 5-27.	0.8	74
69	Enhanced N-Demethylase Activity of Cytochrome c Bound to a Phosphate-Bearing Synthetic Bilayer Membrane. Journal of the American Chemical Society, 1994, 116, 8811-8812.	6.6	73
70	Photo-responsive gel droplet as a nano- or pico-litre container comprising a supramolecular hydrogel. Chemical Communications, 2008, , 1545.	2.2	72
71	Design of a Hybrid Biosensor for Enhanced Phosphopeptide Recognition Based on a Phosphoprotein Binding Domain Coupled with a Fluorescent Chemosensor. Journal of the American Chemical Society, 2007, 129, 6232-6239.	6.6	71
72	Systematic Study of Protein Detection Mechanism of Self-Assembling ¹⁹F NMR/MRI Nanoprobes toward Rational Design and Improved Sensitivity. Journal of the American Chemical Society, 2011, 133, 11725-11731.	6.6	70

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73	Coupling a Natural Receptor Protein with an Artificial Receptor to Afford a Semisynthetic Fluorescent Biosensor. Journal of the American Chemical Society, 2004, 126, 490-495.	6.6	69
74	Fluorophore Labeling of Native FKBP12 by Ligand-Directed Tosyl Chemistry Allows Detection of Its Molecular Interactions in Vitro and in Living Cells. Journal of the American Chemical Society, 2013, 135, 6782-6785.	6.6	68
75	pH Nanosensor Using Electronic Spins in Diamond. ACS Nano, 2019, 13, 11726-11732.	7.3	68
76	Ligand-directed dibromophenyl benzoate chemistry for rapid and selective acylation of intracellular natural proteins. Chemical Science, 2015, 6, 3217-3224.	3.7	67
77	Site-specific Discrimination by Cyanovirin-N for Î±-Linked Trisaccharides Comprising the Three Arms of Man8 and Man9. Journal of Molecular Biology, 2002, 322, 881-889.	2.0	65
78	Chemical Tools for Endogenous Protein Labeling and Profiling. Cell Chemical Biology, 2020, 27, 970-985.	2.5	65
79	Construction of Artificial Signal Transducers on a Lectin Surface by Post-Photoaffinity-Labeling Modification for Fluorescent Saccharide Biosensors. Chemistry - A European Journal, 2003, 9, 3660-3669.	1.7	64
80	Site-specific covalent labeling of His-tag fused proteins with a reactive Ni(ii)â€“NTA probe. Chemical Communications, 2009, , 5880.	2.2	64
81	Intracellular Protein-Responsive Supramolecules: Protein Sensing and In-Cell Construction of Inhibitor Assay System. Journal of the American Chemical Society, 2014, 136, 16635-16642.	6.6	64
82	Double-Modification of Lectin Using Two Distinct Chemistries for Fluorescent Ratiometric Sensing and Imaging Saccharides in Test Tube or in Cell. Journal of the American Chemical Society, 2005, 127, 13253-13261.	6.6	62
83	Light-driven activation of reconstituted myoglobin with a ruthenium tris(2,2'-bipyridine) pendant. Journal of the American Chemical Society, 1993, 115, 10458-10459.	6.6	61
84	Protein Engineering Using Molecular Assembly:Â Functional Conversion of Cytochromecvia Noncovalent Interactions. Journal of the American Chemical Society, 1997, 119, 9096-9102.	6.6	60
85	LDAI-Based Chemical Labeling of Intact Membrane Proteins and Its Pulse-Chase Analysis under Live Cell Conditions. Chemistry and Biology, 2014, 21, 1013-1022.	6.2	60
86	A supramolecular hydrogel containing boronic acid-appended receptor for fluorocolorimetric sensing of polyols with a paper platform. Chemical Communications, 2012, 48, 2716.	2.2	59
87	Organelle membrane-specific chemical labeling and dynamic imaging in living cells. Nature Chemical Biology, 2020, 16, 1361-1367.	3.9	59
88	Direct Observation of the Ferric-Porphyrin Cation Radical as an Intermediate in the Phototriggered Oxidation of Ferric- to Ferryl-Heme Tethered to Ru(bpy)3 in Reconstituted Myoglobin. Journal of the American Chemical Society, 1999, 121, 5500-5506.	6.6	58
89	Twoâ€Photonâ€Responsive Supramolecular Hydrogel for Controlling Materials Motion in Micrometer Space. Angewandte Chemie - International Edition, 2014, 53, 7264-7267.	7.2	57
90	Design and Semisynthesis of Photoactive Myoglobin Bearing Ruthenium Tris(2,2â€˜-bipyridine) Using Cofactor-Reconstitution. Inorganic Chemistry, 1998, 37, 4380-4388.	1.9	55

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91	Meterâ€Long and Robust Supramolecular Strands Encapsulated in Hydrogel Jackets. Angewandte Chemie - International Edition, 2012, 51, 1553-1557.	7.2	55
92	Analysis of Cell-Surface Receptor Dynamics through Covalent Labeling by Catalyst-Tethered Antibody. Journal of the American Chemical Society, 2015, 137, 5372-5380.	6.6	55
93	A Set of Organelle-Localizable Reactive Molecules for Mitochondrial Chemical Proteomics in Living Cells and Brain Tissues. Journal of the American Chemical Society, 2016, 138, 7592-7602.	6.6	55
94	Discovery of allosteric modulators for GABAA receptors by ligand-directed chemistry. Nature Chemical Biology, 2016, 12, 822-830.	3.9	53
95	Shank and Zinc Mediate an AMPA Receptor Subunit Switch in Developing Neurons. Frontiers in Molecular Neuroscience, 2018, 11, 405.	1.4	53
96	Ru(bpy)3-based artificial receptors toward a protein surface: selective binding and efficient photoreduction of cytochrome c. Chemical Communications, 1999, , 2345-2346.	2.2	52
97	Ligand-directed tosyl chemistry for in situ native protein labeling and engineering in living systems: from basic properties to applications. Current Opinion in Chemical Biology, 2014, 21, 136-143.	2.8	52
98	Sugar sensing utilizing aggregation properties of a boronic-acid-appended porphyrin. Tetrahedron Letters, 1993, 34, 6273-6276.	0.7	51
99	Identification of a New Class of Low Molecular Weight Antagonists against the Chemokine Receptor CXCR4 Having the Dipicolylamineâ^'Zinc(II) Complex Structure. Journal of Medicinal Chemistry, 2006, 49, 3412-3415.	2.9	51
100	Post-assembly Fabrication of a Functional Multicomponent Supramolecular Hydrogel Based on a Self-Sorting Double Network. Journal of the American Chemical Society, 2019, 141, 4997-5004.	6.6	51
101	Semisynthetic Lectinâ€“4-Dimethylaminopyridine Conjugates for Labeling and Profiling Glycoproteins on Live Cell Surfaces. Journal of the American Chemical Society, 2013, 135, 12252-12258.	6.6	50
102	PhosphopeptideâEDependent Labeling of 14â€“3â€“3â€‰Î¶ Proteins by FusicoccinâEBased Fluorescent Probes. Angewandte Chemie - International Edition, 2012, 51, 509-512.	7.2	49
103	In-cell covalent labeling of reactive His-tag fused proteins. Chemical Communications, 2013, 49, 5022.	2.2	47
104	Quantitative comparison of protein dynamics in live cells and in vitro by in-cell 19F-NMR. Chemical Communications, 2013, 49, 2801.	2.2	47
105	Protein-responsive protein release of supramolecular/polymer hydrogel composite integrating enzyme activation systems. Nature Communications, 2020, 11, 3859.	5.8	47
106	HeatâEInduced Morphological Transformation of Supramolecular Nanostructures by RetroâEDielsâ€“Alder Reaction. Chemistry - A European Journal, 2012, 18, 13091-13096.	1.7	45
107	Supramolecular hydrogels based on bola-amphiphilic glycolipids showing color change in response to glycosidases. Chemical Communications, 2013, 49, 2115-2117.	2.2	45
108	A conditional proteomics approach to identify proteins involved in zinc homeostasis. Nature Methods, 2016, 13, 931-937.	9.0	45

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109	Chemical Modification of the Structures and Functions of Proteins by the Cofactor Reconstitution Method. European Journal of Organic Chemistry, 1999, 1999, 539-549.	1.2	44
110	Pyrene Excimer-Based Dual-Emission Detection of a Oligoaspartate Tag-Fused Protein by Using a ZnIIâ€“DpaTyr Probe. ChemBioChem, 2007, 8, 1370-1372.	1.3	44
111	Activity-Based Sensing with a Metal-Directed Acyl Imidazole Strategy Reveals Cell Type-Dependent Pools of Labile Brain Copper. Journal of the American Chemical Society, 2020, 142, 14993-15003.	6.6	44
112	Three Distinct Read-Out Modes for Enzyme Activity Can Operate in a Semi-Wet Supramolecular Hydrogel. Chemistry - A European Journal, 2005, 11, 7294-7304.	1.7	43
113	Ratiometric fluorescence detection of a tag fused protein using the dual-emission artificial molecular probe. Chemical Communications, 2006, , 4024.	2.2	43
114	Affinity-Guided Oxime Chemistry for Selective Protein Acylation in Live Tissue Systems. Journal of the American Chemical Society, 2017, 139, 14181-14191.	6.6	43
115	Rigid Luminescent Bisâ€Zinc(II)â€“Bisâ€Cyclen Complexes for the Detection of Phosphate Anions and Nonâ€Covalent Protein Labeling in Aqueous Solution. European Journal of Organic Chemistry, 2011, 2011, 2807-2817.	1.2	42
116	Fluorescence Sensing of Inorganic Phosphate and Pyrophosphate Using Small Molecular Sensors and Their Applications. Topics in Current Chemistry, 2017, 375, 30.	3.0	42
117	Design and Synthesis of Bis(Zn(II)â€“Dipicolylamine)-Based Fluorescent Artificial Chemosensors for Phosphorylated Proteins/Peptides. Bulletin of the Chemical Society of Japan, 2006, 79, 35-46.	2.0	41
118	Mechanisms of chemical protein19F-labeling and NMR-based biosensor construction in vitro and in cells using self-assembling ligand-directed tosylate compounds. Chemical Science, 2011, 2, 511-520.	3.7	40
119	Post-photoaffinity labeling modification using aldehyde chemistry to produce a fluorescent lectin toward saccharide-biosensors. Chemical Communications, 2001, , 229-230.	2.2	39
120	Phosphoprotein-Selective Recognition and Staining in SDS-PAGE by Bis-Zn(II)-dipycolylamine-Appended Anthracene. Chemistry Letters, 2004, 33, 1024-1025.	0.7	39
121	Recent Progress of Phosphate Derivatives Recognition Utilizing Artificial Small Molecular Receptors in Aqueous Media. , 2007, , 95-125.		39
122	Liveâ€Cell Protein Sulfonylation Based on Proximityâ€driven Nâ€Sulfonyl Pyridone Chemistry. Angewandte Chemie - International Edition, 2018, 57, 659-662.	7.2	39
123	The Power of Confocal Laser Scanning Microscopy in Supramolecular Chemistry: In situ Realâ€time Imaging of Stimuliâ€Responsive Multicomponent Supramolecular Hydrogels. ChemistryOpen, 2020, 9, 67-79.	0.9	39
124	Layered arrangement of oriented myoglobins in cast films of a phosphate bilayer membrane. Journal of the American Chemical Society, 1990, 112, 6744-6745.	6.6	38
125	Direct Comparison of Electron Transfer Properties of Two Distinct Semisynthetic Triads with Non-Protein Based Triad: Unambiguous Experimental Evidences on Protein Matrix Effects. Chemistry - A European Journal, 2000, 6, 1907-1916.	1.7	37
126	Fluorophore Appended Saccharide Cyclophane:Â Self-Association, Fluorescent Properties, Heterodimers with Cyclodextrins, and Cross-Linking Behavior with Peanut Agglutinin of Dansyl-Modified Saccharide Cyclophane. Journal of Organic Chemistry, 2004, 69, 3509-3516.	1.7	37

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127	Stiff, Multistimuliâ€Responsive Supramolecular Hydrogels as Unique Molds for 2D/3D Microarchitectures of Live Cells. Chemistry - an Asian Journal, 2011, 6, 2368-2375.	1.7	37
128	One-step construction of caged carbonic anhydrase I using a ligand-directed acyl imidazole-based protein labeling method. Chemical Science, 2013, 4, 2573.	3.7	37
129	Chemical Profiling of the Endoplasmic Reticulum Proteome Using Designer Labeling Reagents. Journal of the American Chemical Society, 2018, 140, 17060-17070.	6.6	37
130	Enhanced Suppression of a Proteinâ€“Protein Interaction in Cells Using Small-Molecule Covalent Inhibitors Based on an N-Acyl-N-alkyl Sulfonamide Warhead. Journal of the American Chemical Society, 2021, 143, 4766-4774.	6.6	37
131	Anisotropic incorporation of lipid-anchored myoglobin into a phospholipid bilayer membrane. Journal of the American Chemical Society, 1993, 115, 4966-4970.	6.6	36
132	Sugar-Responsive Semisynthetic Myoglobin Bearing Phenylboronic Acid Groups as Recognition Sites. Journal of the American Chemical Society, 1994, 116, 7437-7438.	6.6	36
133	Sequence selective dual-emission detection of (i, i + 1) bis-phosphorylated peptide using diazastilbene-type Zn(ii)-Dpa chemosensor. Chemical Communications, 2009, , 2848.	2.2	35
134	Specific Detection and Imaging of Enzyme Activity by Signalâ€Amplifiable Selfâ€Assembling ¹⁹Fâ€...MRI Probes. Chemistry - A European Journal, 2013, 19, 12875-12883.	1.7	35
135	Supramolecular Assemblies Responsive to Biomolecules toward Biological Applications. Chemistry - an Asian Journal, 2015, 10, 2026-2038.	1.7	35
136	Preparation of supramolecular hydrogelâ€“enzyme hybrids exhibiting biomolecule-responsive gel degradation. Nature Protocols, 2016, 11, 1744-1756.	5.5	35
137	Zn(II) dipicolylamine-based artificial receptor as a new entry for surface recognition of Î±-helical peptides in aqueous solution. Tetrahedron Letters, 2001, 42, 7059-7062.	0.7	34
138	Peptide Tag/Probe Pairs Based on the Coordination Chemistry for Protein Labeling. Inorganic Chemistry, 2014, 53, 1816-1823.	1.9	34
139	Recognition-driven chemical labeling of endogenous proteins in multi-molecular crowding in live cells. Chemical Communications, 2017, 53, 11972-11983.	2.2	34
140	Development of a Photoactivatable Proximity Labeling Method for the Identification of Nuclear Proteins. Chemistry Letters, 2020, 49, 145-148.	0.7	34
141	Microscopic Imaging Techniques for Molecular Assemblies: Electron, Atomic Force, and Confocal Microscopies. Chemical Reviews, 2021, 121, 14281-14347.	23.0	34
142	Threeâ€Dimensional Encapsulation of Live Cells by Using a Hybrid Matrix of Nanoparticles in a Supramolecular Hydrogel. Chemistry - A European Journal, 2008, 14, 10808-10815.	1.7	33
143	Caged RNase: photoactivation of the enzyme from perfect off-state by site-specific incorporation of 2-nitrobenzyl moiety. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 13-15.	1.0	32
144	Chemical proteomics for subcellular proteome analysis. Current Opinion in Chemical Biology, 2019, 48, 1-7.	2.8	32

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145	Enhanced Peroxidase Activity of Cytochrome c by Phosphate Bilayer Membrane. Chemistry Letters, 1994, 23, 1219-1222.	0.7	31
146	Control of seed formation allows two distinct self-sorting patterns of supramolecular nanofibers. Nature Communications, 2020, 11, 4100.	5.8	31
147	Thermally Responsive Supramolecular Nanomeshes for On/Off Switching of the Rotary Motion of F₁â€ATPase at the Singleâ€Molecule Level. Chemistry - A European Journal, 2008, 14, 1891-1896.	1.7	30
148	Affinityâ€Labelingâ€Based Introduction of a Reactive Handle for Natural Protein Modification. Chemistry - an Asian Journal, 2008, 3, 1134-1139.	1.7	30
149	CR1-mediated ATP Release by Human Red Blood Cells Promotes CR1 Clustering and Modulates the Immune Transfer Process. Journal of Biological Chemistry, 2013, 288, 31139-31153.	1.6	30
150	Imaging and Profiling of Proteins under Oxidative Conditions in Cells and Tissues by Hydrogen-Peroxide-Responsive Labeling. Journal of the American Chemical Society, 2020, 142, 15711-15721.	6.6	30
151	A Novel Sugar Sensing System Designed with a Cooperative Action of a Boronic-Acid-Appended Zinc Porphyrin and a 3-Pyridylboronic Acid Axial Ligand. Bulletin of the Chemical Society of Japan, 1997, 70, 699-705.	2.0	29
152	Design of Ratiometric Fluorescent Probes Based on Areneâ€“Metalâ€Ion Interactions and Their Application to Cd^{II} and Hydrogen Sulfide Imaging in Living Cells. Chemistry - A European Journal, 2014, 20, 2184-2192.	1.7	29
153	Imaging-Based Study on Control Factors over Self-Sorting of Supramolecular Nanofibers Formed from Peptide- and Lipid-type Hydrogelators. Bioconjugate Chemistry, 2018, 29, 2058-2067.	1.8	29
154	Guest-Induced Umpolung on a Protein Surface:Â A Strategy for Regulation of Enzymatic Activity. Journal of the American Chemical Society, 2000, 122, 4530-4531.	6.6	28
155	Fluidic supramolecular nano- and microfibres as molecular rails for regulated movement of nanosubstances. Nature Communications, 2010, 1, 20.	5.8	28
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