

Jason E Gestwicki

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205
papers

19,453
citations

63
h-index

138
g-index

221
ext. papers

22,054
ext. citations

8.7
avg, IF

6.62
L-index

#	Paper	IF	Citations
205	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
204	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546	10.2	2783
203	Potential therapeutic applications of autophagy. <i>Nature Reviews Drug Discovery</i> , 2007 , 6, 304-12	64.1	815
202	Synthetic multivalent ligands as probes of signal transduction. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2348-68	16.4	706
201	Influencing receptor-ligand binding mechanisms with multivalent ligand architecture. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14922-33	16.4	588
200	Solution conformation of wild-type E. coli Hsp70 (DnaK) chaperone complexed with ADP and substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8471-6	11.5	347
199	Control of multivalent interactions by binding epitope density. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1615-9	16.4	329
198	Heat shock protein 70 (hsp70) as an emerging drug target. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 4585-92	5.602	313
197	Critical role of acetylation in tau-mediated neurodegeneration and cognitive deficits. <i>Nature Medicine</i> , 2015 , 21, 1154-62	50.5	300
196	Heat shock proteins 70 and 90 inhibit early stages of amyloid beta-(1-42) aggregation in vitro. <i>Journal of Biological Chemistry</i> , 2006 , 281, 33182-91	5.4	293
195	A field of myocardial-endocardial NFAT signaling underlies heart valve morphogenesis. <i>Cell</i> , 2004 , 118, 649-63	56.2	276
194	Structure-activity relationships of amyloid beta-aggregation inhibitors based on curcumin: influence of linker length and flexibility. <i>Chemical Biology and Drug Design</i> , 2007 , 70, 206-15	2.9	236
193	Inter-receptor communication through arrays of bacterial chemoreceptors. <i>Nature</i> , 2002 , 415, 81-4	50.4	229
192	Methylthioninium chloride (methylene blue) induces autophagy and attenuates tauopathy in vitro and in vivo. <i>Autophagy</i> , 2012 , 8, 609-22	10.2	220
191	Chemical manipulation of hsp70 ATPase activity regulates tau stability. <i>Journal of Neuroscience</i> , 2009 , 29, 12079-88	6.6	188
190	Harnessing chaperones to generate small-molecule inhibitors of amyloid beta aggregation. <i>Science</i> , 2004 , 306, 865-9	33.3	168
189	Defining Hsp70 Subnetworks in Dengue Virus Replication Reveals Key Vulnerability in Flavivirus Infection. <i>Cell</i> , 2015 , 163, 1108-1123	56.2	166

188	Targeting Hsp90/Hsp70-based protein quality control for treatment of adult onset neurodegenerative diseases. <i>Annual Review of Pharmacology and Toxicology</i> , 2015 , 55, 353-71	17.9	161
187	Features of protein-protein interactions that translate into potent inhibitors: topology, surface area and affinity. <i>Expert Reviews in Molecular Medicine</i> , 2012 , 14, e16	6.7	146
186	Pharmacological chaperone for β -crystallin partially restores transparency in cataract models. <i>Science</i> , 2015 , 350, 674-7	33.3	145
185	Activation of Hsp70 reduces neurotoxicity by promoting polyglutamine protein degradation. <i>Nature Chemical Biology</i> , 2013 , 9, 112-8	11.7	144
184	Phenothiazine-mediated rescue of cognition in tau transgenic mice requires neuroprotection and reduced soluble tau burden. <i>Molecular Neurodegeneration</i> , 2010 , 5, 45	19	141
183	Rapamycin analogs with differential binding specificity permit orthogonal control of protein activity. <i>Chemistry and Biology</i> , 2006 , 13, 99-107		140
182	Expanding the number of druggable targets: non-enzymes and protein-protein interactions. <i>Chemical Biology and Drug Design</i> , 2013 , 81, 22-32	2.9	138
181	Allosteric drugs: the interaction of antitumor compound MKT-077 with human Hsp70 chaperones. <i>Journal of Molecular Biology</i> , 2011 , 411, 614-32	6.5	137
180	Ube2w and ataxin-3 coordinately regulate the ubiquitin ligase CHIP. <i>Molecular Cell</i> , 2011 , 43, 599-612	17.6	124
179	Enantioselective organocatalytic Hantzsch synthesis of polyhydroquinolines. <i>Organic Letters</i> , 2009 , 11, 2957-9	6.2	119
178	Allostery in the Hsp70 chaperone proteins. <i>Topics in Current Chemistry</i> , 2013 , 328, 99-153		118
177	Insight into amyloid structure using chemical probes. <i>Chemical Biology and Drug Design</i> , 2011 , 77, 399-411	4.9	118
176	Binding of a small molecule at a protein-protein interface regulates the chaperone activity of hsp70-hsp40. <i>ACS Chemical Biology</i> , 2010 , 5, 611-22	4.9	116
175	Synthesis of end-labeled multivalent ligands for exploring cell-surface-receptor-ligand interactions. <i>Chemistry and Biology</i> , 2000 , 7, 9-16		116
174	Using receptor conformational change to detect low molecular weight analytes by surface plasmon resonance. <i>Analytical Chemistry</i> , 2001 , 73, 5732-7	7.8	114
173	Pharmacological targeting of the Hsp70 chaperone. <i>Current Topics in Medicinal Chemistry</i> , 2009 , 9, 1337-51		113
172	Inhibitors of protein-protein interactions (PPIs): an analysis of scaffold choices and buried surface area. <i>Current Opinion in Chemical Biology</i> , 2018 , 44, 75-86	9.7	112
171	Conditional protein alleles using knockin mice and a chemical inducer of dimerization. <i>Molecular Cell</i> , 2003 , 12, 1615-24	17.6	112

170	Hsp70-Bag3 interactions regulate cancer-related signaling networks. <i>Cancer Research</i> , 2014 , 74, 4731-4010.1	107
169	High-throughput screen for small molecules that modulate the ATPase activity of the molecular chaperone DnaK. <i>Analytical Biochemistry</i> , 2008 , 372, 167-76	3.1 104
168	Binding of human nucleotide exchange factors to heat shock protein 70 (Hsp70) generates functionally distinct complexes in vitro. <i>Journal of Biological Chemistry</i> , 2014 , 289, 1402-14	5.4 103
167	Synthesis and applications of end-labeled neoglycopolymers. <i>Organic Letters</i> , 2002 , 4, 2293-6	6.2 102
166	Analogs of the Allosteric Heat Shock Protein 70 (Hsp70) Inhibitor, MKT-077, as Anti-Cancer Agents. <i>ACS Medicinal Chemistry Letters</i> , 2013 , 4,	4.3 96
165	Hsp70 protein complexes as drug targets. <i>Current Pharmaceutical Design</i> , 2013 , 19, 404-17	3.3 89
164	Bicinchoninic acid (BCA) assay in low volume. <i>Analytical Biochemistry</i> , 2011 , 410, 310-2	3.1 87
163	Evolutionary conservation of methyl-accepting chemotaxis protein location in Bacteria and Archaea. <i>Journal of Bacteriology</i> , 2000 , 182, 6499-502	3.5 85
162	Synthesis and initial evaluation of YM-08, a blood-brain barrier permeable derivative of the heat shock protein 70 (Hsp70) inhibitor MKT-077, which reduces tau levels. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 930-9	5.7 84
161	BAG3 Is a Modular, Scaffolding Protein that physically Links Heat Shock Protein 70 (Hsp70) to the Small Heat Shock Proteins. <i>Journal of Molecular Biology</i> , 2017 , 429, 128-141	6.5 84
160	Imbalance of Hsp70 family variants fosters tau accumulation. <i>FASEB Journal</i> , 2013 , 27, 1450-9	0.9 84
159	The remarkable multivalency of the Hsp70 chaperones. <i>Cell Stress and Chaperones</i> , 2017 , 22, 173-189	4 80
158	Chemical screens against a reconstituted multiprotein complex: myricetin blocks DnaJ regulation of DnaK through an allosteric mechanism. <i>Chemistry and Biology</i> , 2011 , 18, 210-21	80
157	Validation of the Hsp70-Bag3 protein-protein interaction as a potential therapeutic target in cancer. <i>Molecular Cancer Therapeutics</i> , 2015 , 14, 642-8	6.1 79
156	Allosteric heat shock protein 70 inhibitors rapidly rescue synaptic plasticity deficits by reducing aberrant tau. <i>Biological Psychiatry</i> , 2013 , 74, 367-74	7.9 78
155	Tuning chemotactic responses with synthetic multivalent ligands. <i>Chemistry and Biology</i> , 2000 , 7, 583-91	78
154	Inhibition of hsp70 by methylene blue affects signaling protein function and ubiquitination and modulates polyglutamine protein degradation. <i>Journal of Biological Chemistry</i> , 2010 , 285, 15714-23	5.4 77
153	Microwave-induced esterification using heterogeneous acid catalyst in a low dielectric constant medium. <i>Journal of Organic Chemistry</i> , 2000 , 65, 1210-4	4.2 77

152	Fine-tuning multiprotein complexes using small molecules. <i>ACS Chemical Biology</i> , 2012 , 7, 1311-20	4.9	76
151	Cell aggregation by scaffolded receptor clusters. <i>Chemistry and Biology</i> , 2002 , 9, 163-9		75
150	CSAR data set release 2012: ligands, affinities, complexes, and docking decoys. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1842-52	6.1	74
149	Specific Binding of Tetratricopeptide Repeat Proteins to Heat Shock Protein 70 (Hsp70) and Heat Shock Protein 90 (Hsp90) Is Regulated by Affinity and Phosphorylation. <i>Biochemistry</i> , 2015 , 54, 7120-31	3.2	72
148	Cysteine reactivity distinguishes redox sensing by the heat-inducible and constitutive forms of heat shock protein 70. <i>Chemistry and Biology</i> , 2012 , 19, 1391-9		71
147	Motility and chemotaxis of filamentous cells of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 4337-43	4.3	71
146	Selective immobilization of multivalent ligands for surface plasmon resonance and fluorescence microscopy. <i>Analytical Biochemistry</i> , 2002 , 305, 149-55	3.1	69
145	SIRT1 Deacetylates Tau and Reduces Pathogenic Tau Spread in a Mouse Model of Tauopathy. <i>Journal of Neuroscience</i> , 2018 , 38, 3680-3688	6.6	66
144	Facilitating Akt clearance via manipulation of Hsp70 activity and levels. <i>Journal of Biological Chemistry</i> , 2010 , 285, 2498-505	5.4	65
143	Targeting the Hsp40/Hsp70 Chaperone Axis as a Novel Strategy to Treat Castration-Resistant Prostate Cancer. <i>Cancer Research</i> , 2018 , 78, 4022-4035	10.1	64
142	Hsc70 rapidly engages tau after microtubule destabilization. <i>Journal of Biological Chemistry</i> , 2010 , 285, 16798-805	5.4	61
141	Mapping interactions with the chaperone network reveals factors that protect against tau aggregation. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 384-393	17.6	60
140	Protein quality control in neurodegenerative disease. <i>Progress in Molecular Biology and Translational Science</i> , 2012 , 107, 327-53	4	60
139	Apratoxin Kills Cells by Direct Blockade of the Sec61 Protein Translocation Channel. <i>Cell Chemical Biology</i> , 2016 , 23, 561-566	8.2	60
138	Identification of small molecules that modify the protein folding activity of heat shock protein 70. <i>Analytical Biochemistry</i> , 2008 , 374, 371-7	3.1	59
137	Chemical modulators of heat shock protein 70 (Hsp70) by sequential, microwave-accelerated reactions on solid phase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 60-5	2.9	59
136	Peptidyl-Proline Isomerases (PPIases): Targets for Natural Products and Natural Product-Inspired Compounds. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 9622-9644	8.3	57
135	Derrubone, an inhibitor of the Hsp90 protein folding machinery. <i>Journal of Natural Products</i> , 2007 , 70, 2014-8	4.9	56

134	The C-terminal repeating units of CsgB direct bacterial functional amyloid nucleation. <i>Journal of Molecular Biology</i> , 2012 , 422, 376-89	6.5	55
133	Mutagenesis reveals the complex relationships between ATPase rate and the chaperone activities of Escherichia coli heat shock protein 70 (Hsp70/DnaK). <i>Journal of Biological Chemistry</i> , 2010 , 285, 21282-21291	5.4	54
132	Exploration of Benzothiazole Rhodacyanines as Allosteric Inhibitors of Protein-Protein Interactions with Heat Shock Protein 70 (Hsp70). <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 6163-6177	8.3	54
131	Zika Virus Dependence on Host Hsp70 Provides a Protective Strategy against Infection and Disease. <i>Cell Reports</i> , 2019 , 26, 906-920.e3	10.6	53
130	Analysis of the tau-associated proteome reveals that exchange of Hsp70 for Hsp90 is involved in tau degradation. <i>ACS Chemical Biology</i> , 2012 , 7, 1677-86	4.9	53
129	Cdc37/Hsp90 protein complex disruption triggers an autophagic clearance cascade for TDP-43 protein. <i>Journal of Biological Chemistry</i> , 2012 , 287, 24814-20	5.4	52
128	Protein-Protein Interactions in the Molecular Chaperone Network. <i>Accounts of Chemical Research</i> , 2018 , 51, 940-949	24.3	51
127	Contact Angle Goniometry as a Tool for Surface Tension Measurements of Solids, Using Zisman Plot Method. A Physical Chemistry Experiment. <i>Journal of Chemical Education</i> , 2000 , 77, 63	2.4	51
126	Pathogenic Tau Impairs Axon Initial Segment Plasticity and Excitability Homeostasis. <i>Neuron</i> , 2019 , 104, 458-470.e5	13.9	49
125	Compromised function of the ESCRT pathway promotes endolysosomal escape of tau seeds and propagation of tau aggregation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 18952-18966	5.4	49
124	Molecular chaperones and regulation of tau quality control: strategies for drug discovery in tauopathies. <i>Future Medicinal Chemistry</i> , 2011 , 3, 1523-37	4.1	48
123	Chemical control over protein-protein interactions: beyond inhibitors. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007 , 10, 667-75	1.3	46
122	Inhibitors and chemical probes for molecular chaperone networks. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2151-2161	5.4	46
121	Competing protein-protein interactions regulate binding of Hsp27 to its client protein tau. <i>Nature Communications</i> , 2018 , 9, 4563	17.4	45
120	Promoting tau secretion and propagation by hyperactive p300/CBP via autophagy-lysosomal pathway in tauopathy. <i>Molecular Neurodegeneration</i> , 2020 , 15, 2	19	43
119	Stabilizing the Hsp70-Tau Complex Promotes Turnover in Models of Tauopathy. <i>Cell Chemical Biology</i> , 2016 , 23, 992-1001	8.2	43
118	The E3 ubiquitin ligase CHIP and the molecular chaperone Hsc70 form a dynamic, tethered complex. <i>Biochemistry</i> , 2013 , 52, 5354-64	3.2	42
117	Visualization and functional analysis of the oligomeric states of Escherichia coli heat shock protein 70 (Hsp70/DnaK). <i>Cell Stress and Chaperones</i> , 2012 , 17, 313-27	4	42

116	Genomic heat shock element sequences drive cooperative human heat shock factor 1 DNA binding and selectivity. <i>Journal of Biological Chemistry</i> , 2014 , 289, 30459-30469	5.4	41
115	Fragment binding to the Nsp3 macrodomain of SARS-CoV-2 identified through crystallographic screening and computational docking. <i>Science Advances</i> , 2021 , 7,	14.3	41
114	Direct and Propagated Effects of Small Molecules on Protein-Protein Interaction Networks. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 119	5.8	40
113	High-throughput screen for Escherichia coli heat shock protein 70 (Hsp70/DnaK): ATPase assay in low volume by exploiting energy transfer. <i>Journal of Biomolecular Screening</i> , 2010 , 15, 1211-9		40
112	Inhibitors of difficult protein-protein interactions identified by high-throughput screening of multiprotein complexes. <i>ACS Chemical Biology</i> , 2013 , 8, 1988-1997	4.9	38
111	Structural and Biological Interaction of hsc-70 Protein with Phosphatidylserine in Endosomal Microautophagy. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18096-106	5.4	37
110	Targeting Allosteric Control Mechanisms in Heat Shock Protein 70 (Hsp70). <i>Current Topics in Medicinal Chemistry</i> , 2016 , 16, 2729-40	3	37
109	Myopathy associated BAG3 mutations lead to protein aggregation by stalling Hsp70 networks. <i>Nature Communications</i> , 2018 , 9, 5342	17.4	36
108	Designed potent multivalent chemoattractants for Escherichia coli. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 2387-93	3.4	35
107	Isoform-selective Genetic Inhibition of Constitutive Cytosolic Hsp70 Activity Promotes Client Tau Degradation Using an Altered Co-chaperone Complement. <i>Journal of Biological Chemistry</i> , 2015 , 290, 13115-27	5.4	34
106	Rhodacyanine derivative selectively targets cancer cells and overcomes tamoxifen resistance. <i>PLoS ONE</i> , 2012 , 7, e35566	3.7	32
105	KHS101 disrupts energy metabolism in human glioblastoma cells and reduces tumor growth in mice. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	31
104	Aim for the core: suitability of the ubiquitin-independent 20S proteasome as a drug target in neurodegeneration. <i>Translational Research</i> , 2018 , 198, 48-57	11	30
103	Non-canonical Interactions between Heat Shock Cognate Protein 70 (Hsc70) and Bcl2-associated Anthanogene (BAG) Co-Chaperones Are Important for Client Release. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19848-57	5.4	29
102	Pharmacological tuning of heat shock protein 70 modulates polyglutamine toxicity and aggregation. <i>ACS Chemical Biology</i> , 2012 , 7, 1556-64	4.9	29
101	Rescue of degradation-prone mutants of the FK506-rapamycin binding (FRB) protein with chemical ligands. <i>ChemBioChem</i> , 2007 , 8, 1162-9	3.8	29
100	Acetylated tau inhibits chaperone-mediated autophagy and promotes tau pathology propagation in mice. <i>Nature Communications</i> , 2021 , 12, 2238	17.4	29
99	Predicting protein targets for drug-like compounds using transcriptomics. <i>PLoS Computational Biology</i> , 2018 , 14, e1006651	5	29

98	The molecular chaperone Hsp70 activates protein phosphatase 5 (PP5) by binding the tetratricopeptide repeat (TPR) domain. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2908-17	5.4	28
97	Chemical probes that selectively recognize the earliest A β oligomers in complex mixtures. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17655-7	16.4	27
96	Conserved amplification of chemotactic responses through chemoreceptor interactions. <i>Journal of Bacteriology</i> , 2002 , 184, 4981-7	3.5	27
95	X-linked inhibitor of apoptosis protein (XIAP) is a client of heat shock protein 70 (Hsp70) and a biomarker of its inhibition. <i>Journal of Biological Chemistry</i> , 2018 , 293, 2370-2380	5.4	26
94	Development of a capillary electrophoresis platform for identifying inhibitors of protein-protein interactions. <i>Analytical Chemistry</i> , 2013 , 85, 9824-31	7.8	25
93	A chemical screening approach reveals that indole fluorescence is quenched by pre-fibrillar but not fibrillar amyloid-beta. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 4952-7	2.9	25
92	A small molecule-directed approach to control protein localization and function. <i>Yeast</i> , 2008 , 25, 577-94	3.4	25
91	High-throughput screen for inhibitors of protein-protein interactions in a reconstituted heat shock protein 70 (Hsp70) complex. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4014-4025	5.4	24
90	Heat Shock Protein 70 (Hsp70) Suppresses RIP1-Dependent Apoptotic and Necroptotic Cascades. <i>Molecular Cancer Research</i> , 2018 , 16, 58-68	6.6	24
89	Specificity for latent C termini links the E3 ubiquitin ligase CHIP to caspases. <i>Nature Chemical Biology</i> , 2019 , 15, 786-794	11.7	24
88	Unbiased screen identifies aripiprazole as a modulator of abundance of the polyglutamine disease protein, ataxin-3. <i>Brain</i> , 2016 , 139, 2891-2908	11.2	24
87	From Fuzzy to Function: The New Frontier of Protein-Protein Interactions. <i>Accounts of Chemical Research</i> , 2017 , 50, 584-589	24.3	23
86	A Legionella pneumophila Kinase Phosphorylates the Hsp70 Chaperone Family to Inhibit Eukaryotic Protein Synthesis. <i>Cell Host and Microbe</i> , 2019 , 25, 454-462.e6	23.4	23
85	The active Hsc70/tau complex can be exploited to enhance tau turnover without damaging microtubule dynamics. <i>Human Molecular Genetics</i> , 2015 , 24, 3971-81	5.6	23
84	Anticancer Effects of Targeting Hsp70 in Tumor Stromal Cells. <i>Cancer Research</i> , 2016 , 76, 5926-5932	10.1	23
83	Hsp70 and Hsp40 inhibit an inter-domain interaction necessary for transcriptional activity in the androgen receptor. <i>Nature Communications</i> , 2019 , 10, 3562	17.4	23
82	Molecular chaperones DnaK and DnaJ share predicted binding sites on most proteins in the E. coli proteome. <i>Molecular BioSystems</i> , 2012 , 8, 2323-33		23
81	FK506-binding protein (FKBP) partitions a modified HIV protease inhibitor into blood cells and prolongs its lifetime in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1336-41	11.5	23

80	Conditionally controlling nuclear trafficking in yeast by chemical-induced protein dimerization. <i>Nature Protocols</i> , 2010 , 5, 1831-43	18.8	22
79	Ordered assembly of heat shock proteins, Hsp26, Hsp70, Hsp90, and Hsp104, on expanded polyglutamine fragments revealed by chemical probes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 40486-93	5.4	22
78	Inducible renitence limits <i>Listeria monocytogenes</i> escape from vacuoles in macrophages. <i>Journal of Immunology</i> , 2012 , 189, 4488-95	5.3	22
77	Quantifying prefibrillar amyloids in vitro by using a "thioflavin-like" spectroscopic method. <i>ChemBioChem</i> , 2010 , 11, 1889-95	3.8	22
76	Combined chemical-genetic approach identifies cytosolic HSP70 dependence in rhabdomyosarcoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9015-20	11.5	21
75	The disorderly conduct of Hsc70 and its interaction with the Alzheimer β -related Tau protein. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10796-10809	5.4	20
74	Allosteric heat shock protein 70 inhibitors block hepatitis C virus assembly. <i>International Journal of Antimicrobial Agents</i> , 2016 , 47, 289-96	14.3	18
73	Therapeutic Strategies for Restoring Tau Homeostasis. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018 , 8,	5.4	17
72	An allosteric modulator of HIV-1 protease shows equipotent inhibition of wild-type and drug-resistant proteases. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 6468-78	8.3	17
71	Synthetic lethal interactions in yeast reveal functional roles of J protein co-chaperones. <i>Molecular BioSystems</i> , 2012 , 8, 2901-8		17
70	A model in which heat shock protein 90 targets protein-folding clefts: rationale for a new approach to neuroprotective treatment of protein folding diseases. <i>Experimental Biology and Medicine</i> , 2014 , 239, 1405-13	3.7	16
69	Synthesis of orthogonally reactive FK506 derivatives via olefin cross metathesis. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 5763-8	3.4	16
68	Heme-dependent activation of neuronal nitric oxide synthase by cytosol is due to an Hsp70-dependent, thioredoxin-mediated thiol-disulfide interchange in the heme/substrate binding cleft. <i>Biochemistry</i> , 2011 , 50, 7146-56	3.2	15
67	The pleiotropic effects of TNF α in breast cancer subtypes is regulated by TNFAIP3/A20. <i>Oncogene</i> , 2019 , 38, 469-482	9.2	15
66	Protein Cross-Linking Capillary Electrophoresis for Protein-Protein Interaction Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 8272-8	7.8	14
65	Deconvolution method for specific and nonspecific binding of ligand to multiprotein complex by native mass spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 8541-6	7.8	14
64	A screen for modulators of large T antigen β ATPase activity uncovers novel inhibitors of Simian Virus 40 and BK virus replication. <i>Antiviral Research</i> , 2012 , 96, 70-81	10.8	14
63	Synthesis, stereochemical analysis, and derivatization of myricanol provide new probes that promote autophagic tau clearance. <i>ACS Chemical Biology</i> , 2015 , 10, 1099-109	4.9	13

62	Identification of key hinge residues important for nucleotide-dependent allostery in E. coli Hsp70/DnaK. <i>PLoS Computational Biology</i> , 2013 , 9, e1003279	5	13
61	Mechanism of Action of VP1-001 in cryAB(R120G)-Associated and Age-Related Cataracts 2019 , 60, 3320-3331	12	
60	High-throughput screen of natural product extracts in a yeast model of polyglutamine proteotoxicity. <i>Chemical Biology and Drug Design</i> , 2014 , 83, 440-9	2.9	12
59	Adhesion-mediated mechanosignaling forces mitohormesis. <i>Cell Metabolism</i> , 2021 , 33, 1322-1341.e13	24.6	12
58	Mortalin/HSPA9 targeting selectively induces KRAS tumor cell death by perturbing mitochondrial membrane permeability. <i>Oncogene</i> , 2020 , 39, 4257-4270	9.2	12
57	Mortalin (HSPA9) facilitates -mutant tumor cell survival by suppressing ANT3-mediated mitochondrial membrane permeability. <i>Science Signaling</i> , 2020 , 13,	8.8	11
56	Improved synthesis of 15-deoxyspergualin analogs using the Ugi multi-component reaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2587-90	2.9	11
55	Protein cross-linking capillary electrophoresis at increased throughput for a range of protein-protein interactions. <i>Analyst, The</i> , 2018 , 143, 1805-1812	5	10
54	Individualized management of genetic diversity in Niemann-Pick C1 through modulation of the Hsp70 chaperone system. <i>Human Molecular Genetics</i> , 2020 , 29, 1-19	5.6	10
53	A Local Allosteric Network in Heat Shock Protein 70 (Hsp70) Links Inhibitor Binding to Enzyme Activity and Distal Protein-Protein Interactions. <i>ACS Chemical Biology</i> , 2018 , 13, 3142-3152	4.9	10
52	The structure of an Hsp90-immunophilin complex reveals cochaperone recognition of the client maturation state. <i>Molecular Cell</i> , 2021 , 81, 3496-3508.e5	17.6	10
51	Rational design and screening of peptide-based inhibitors of heat shock factor 1 (HSF1). <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 5299-5306	3.4	9
50	Effect of Microwave Radiation on Copper(II) 2,2-Bipyridyl-Mediated Hydrolysis of Bis(p-nitrophenyl) Phosphodiester and Enzymatic Hydrolysis of Carbohydrates. <i>Journal of Organic Chemistry</i> , 1996 , 61, 9599-9602	4.2	9
49	Designing de Novo Small Molecules That Control Heat Shock Protein 70 (Hsp70) and Heat Shock Organizing Protein (HOP) within the Chaperone Protein-Folding Machinery. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 742-761	8.3	9
48	Neutral analogs of the heat shock protein 70 (Hsp70) inhibitor, JG-98. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 126954	2.9	8
47	Conditional nuclear import and export of yeast proteins using a chemical inducer of dimerization. <i>Cell Biochemistry and Biophysics</i> , 2009 , 53, 127-34	3.2	8
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