Gregory A Petsko

List of Publications by Year
in descending order

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178	6,226	31	75
papers	citations	h-index	g-index
		147801	74163

183	183	183	9724
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular dynamics simulations in biology. Nature, 1990, 347, 631-639.	27.8	946
2	Crystalline ribonuclease A loses function below the dynamical transition at 220 K. Nature, 1992, 357, 423-424.	27.8	572
3	CEACAM1 regulates TIM-3-mediated tolerance and exhaustion. Nature, 2015, 517, 386-390.	27.8	525
4	A soluble Î±-synuclein construct forms a dynamic tetramer. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17797-17802.	7.1	408
5	Targeting Î±-synuclein for treatment of Parkinson's disease: mechanistic and therapeutic considerations. Lancet Neurology, The, 2015, 14, 855-866.	10.2	393
6	Acquired resistance to IDH inhibition through trans or cis dimer-interface mutations. Nature, 2018, 559, 125-129.	27.8	223
7	Caspase-1 causes truncation and aggregation of the Parkinsonâ€™s disease-associated protein Î±-synuclein. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9587-9592.	7.1	202
8	Retromer in Alzheimer disease, Parkinson disease and other neurological disorders. Nature Reviews Neuroscience, 2015, 16, 126-132.	10.2	197
9	Pharmacological chaperones stabilize retromer to limit APP processing. Nature Chemical Biology, 2014, 10, 443-449.	8.0	189
10	Nuclear receptor Nurr1 agonists enhance its dual functions and improve behavioral deficits in an animal model of Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8756-8761.	7.1	147
11	Crystal Cryocooling Distorts Conformational Heterogeneity in a Model Michaelis Complex of DHFR. Structure, 2014, 22, 899-910.	3.3	131
12	Crystal structures of HINT demonstrate that histidine triad proteins are GalT-related nucleotide-binding proteins. Nature Structural Biology, 1997, 4, 231-238.	9.7	124
13	Amelioration of toxicity in neuronal models of amyotrophic lateral sclerosis by hUPF1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7821-7826.	7.1	114
14	Endosomal Traffic Jams Represent a Pathogenic Hub and Therapeutic Target in Alzheimerâ€™s Disease. Trends in Neurosciences, 2017, 40, 592-602.	8.6	114
15	AAVrh.10-Mediated APOE2 Central Nervous System Gene Therapy for APOE4-Associated Alzheimer's Disease. Human Gene Therapy Clinical Development, 2018, 29, 24-47.	3.1	90
16	Reducing C-terminal truncation mitigates synucleinopathy and neurodegeneration in a transgenic model of multiple system atrophy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9593-9598.	7.1	89
17	Analogous inhibitors of elastase do not always bind analogously. Nature Structural and Molecular Biology, 1994, 1, 55-58.	8.2	88
18	Transnitrosylation from DJ-1 to PTEN Attenuates Neuronal Cell Death in Parkinson's Disease Models. Journal of Neuroscience, 2014, 34, 15123-15131.	3.6	88

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19	Stabilizing the Retromer Complex in a Human Stem Cell Model of Alzheimerâ€™s Disease Reduces TAU Phosphorylation Independently of Amyloid Precursor Protein. Stem Cell Reports, 2018, 10, 1046-1058.	4.8	82
20	Inhibition of the Aminopeptidase fromAeromonas proteolyticabyl-Leucinephosphonic Acid. Spectroscopic and Crystallographic Characterization of the Transition State of Peptide Hydrolysisâ€. Biochemistry, 2001, 40, 7035-7046.	2.5	76
21	mGreenLantern: a bright monomeric fluorescent protein with rapid expression and cell filling properties for neuronal imaging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30710-30721.	7.1	76
22	Structure of a Michaelis Complex Analogue:Â Propionate Binds in the Substrate Carboxylate Site of Alanine Racemaseâ€,â€¡. Biochemistry, 1999, 38, 3293-3301.	2.5	73
23	A comparison between molecular dynamics and X-ray results for dissociated CO in myoglobin. Nature Structural Biology, 1997, 4, 202-208.	9.7	72
24	Parkinsonâ€™s Disease and Melanoma: Co-Occurrence and Mechanisms. Journal of Parkinson's Disease, 2018, 8, 385-398.	2.8	72
25	My worries are no longer behind me. Genome Biology, 2007, 8, 109.	9.6	70
26	25-Hydroxycholesterol amplifies microglial IL-1Î² production in an apoE isoform-dependent manner. Journal of Neuroinflammation, 2020, 17, 192.	7.2	57
27	PGE1 and PGA1 bind to Nurr1 and activate its transcriptional function. Nature Chemical Biology, 2020, 16, 876-886.	8.0	51
28	A transport problem?. Nature, 1990, 346, 312-313.	27.8	47
29	Mycobacterium tuberculosis Hip1 Modulates Macrophage Responses through Proteolysis of GroEL2. PLoS Pathogens, 2014, 10, e1004132.	4.7	40
30	Metal-Dependent Function of a Mammalian Acireductone Dioxygenase. Biochemistry, 2016, 55, 1398-1407.	2.5	35
31	High resolution X-ray and NMR structural study of human T-cell immunoglobulin and mucin domain containing protein-3. Scientific Reports, 2018, 8, 17512.	3.3	35
32	Inactivation and destruction of conserved Trp159 of Fe-superoxide dismutase from Porphyromonas gingivalis by hydrogen peroxide. FEBS Journal, 1998, 253, 49-56.	0.2	34
33	When failure should be the option. BMC Biology, 2010, 8, 61.	3.8	34
34	Crystal structure of Saccharomyces cerevisiae cytosolic aspartate aminotransferase. Protein Science, 1998, 7, 1380-1387.	7.6	33
35	Endosomal recycling reconciles the Alzheimerâ€™s disease paradox. Science Translational Medicine, 2020, 12, .	12.4	33
36	A seat at the table. Genome Biology, 2008, 9, 113.	9.6	28

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37	PLP and GABA trigger GabR-mediated transcription regulation in <i>Bacillus subtilis</i> via external aldimine formation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3891-3896.	7.1	26
38	The structure of iron superoxide dismutase from Pseudomonas ovalis complexed with the inhibitor azide. Protein Engineering, Design and Selection, 1990, 4, 113-119.	2.1	25
39	Crystal Structures of Cystathionine Î²-Synthase from <i>Saccharomyces cerevisiae</i>: One Enzymatic Step at a Time. Biochemistry, 2018, 57, 3134-3145.	2.5	25
40	DÃ©jÃ¡ vu all over again. Nature, 1991, 352, 104-105.	27.8	24
41	Not just your average structures. Nature Structural Biology, 1996, 3, 565-566.	9.7	24
42	Tunnel vision. Nature, 1999, 399, 417-418.	27.8	22
43	An idea whose time has gone. Genome Biology, 2007, 8, 107.	9.6	22
44	Design by necessity. Nature, 2000, 403, 606-607.	27.8	21
45	Crystal structure of the DNA binding domain of the transcription factor T-bet suggests simultaneous recognition of distant genome sites. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6572-E6581.	7.1	20
46	Purification and crystallization of benzoylformate decarboxylase. Protein Science, 1995, 4, 955-959.	7.6	18
47	Crystal Structure of Green Fluorescent Protein Clover and Design of Clover-Based Redox Sensors. Structure, 2018, 26, 225-237.e3.	3.3	17
48	Cholera toxin inhibits SNX27-retromer mediated delivery of cargo proteins to the plasma membrane. Journal of Cell Science, 2018, 131, .	2.0	17
49	The neuronal retromer can regulate both neuronal and microglial phenotypes of Alzheimer's disease. Cell Reports, 2022, 38, 110262.	6.4	17
50	Guilt by association. Genome Biology, 2009, 10, 104.	9.6	16
51	The Structural Basis for Pseudoreversion of the H95N Lesion by the Secondary S96P Mutation in Triosephosphate Isomeraseâ€‚â€¡. Biochemistry, 1996, 35, 15474-15484.	2.5	15
52	When bubbles burst. Genome Biology, 2008, 9, 110.	9.6	15
53	Having an impact (factor). Genome Biology, 2008, 9, 107.	9.6	14
54	And the second shall be first. Genome Biology, 2007, 8, 103.	9.6	13

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55	Identification of RIOK2 as a master regulator of human blood cell development. Nature Immunology, 2022, 23, 109-121.	14.5	13
56	The blue marble. Genome Biology, 2011, 12, 112.	9.6	12
57	Targeted stabilization of Munc18â€1 function via pharmacological chaperones. EMBO Molecular Medicine, 2021, 13, e12354.	6.9	12
58	No stone unturned. Genome Biology, 2010, 11, 112.	9.6	11
59	Dual chemistry catalyzed by human acireductone dioxygenase. Protein Engineering, Design and Selection, 2017, 30, 197-204.	2.1	11
60	A new alpha-synuclein missense variant (Thr72Met) in two Turkish families with Parkinson's disease. Parkinsonism and Related Disorders, 2021, 89, 63-72.	2.2	11
61	Goodbye, Columbus. Genome Biology, 2012, 13, 155.	9.6	10
62	Structure Determination of <i>Mycobacterium tuberculosis</i> Serine Protease Hip1 (Rv2224c). Biochemistry, 2017, 56, 2304-2314.	2.5	10
63	Brain-wide analysis of the supraspinal connectome reveals anatomical correlates to functional recovery after spinal injury. ELife, 0, 11, .	6.0	10
64	Do the math. Genome Biology, 2006, 7, 119.	9.6	9
65	Heavy metal revival. Nature, 1995, 377, 580-581.	27.8	8
66	What's in a name?. Genome Biology, 2002, 3, comment1005.1.	9.6	8
67	Rising in the East. Genome Biology, 2010, 11, 102.	9.6	8
68	Fishing in Src-infested waters. Nature, 1992, 358, 625-626.	27.8	7
69	The highs and lows of scientific conferences. Nature Reviews Molecular Cell Biology, 2006, 7, 231-234.	37.0	7
70	A Faustian bargain. Genome Biology, 2010, 11, 138.	9.6	7
71	Structure and mechanism of benzaldehyde dehydrogenase from Pseudomonas putida ATCC 12633, a member of the Class 3 aldehyde dehydrogenase superfamily. Protein Engineering, Design and Selection, 2017, 30, 273-280.	2.1	7
72	The father of us all. Genome Biology, 2002, 3, comment1004.1.	9.6	6

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73	Structural basis of the dynamic human CEACAM1 monomer-dimer equilibrium. Communications Biology, 2021, 4, 360.	4.4	6
74	Elucidating the causes of neurodegeneration. Science, 2022, 377, 31-32.	12.6	6
75	The next epidemic. Genome Biology, 2006, 7, 108.	9.6	5
76	The one new journal we might actually need. Genome Biology, 2011, 12, 129.	9.6	5
77	How may you help me?. Genome Biology, 2005, 6, 111.	9.6	4
78	The system is broken. Genome Biology, 2006, 7, 105.	9.6	4
79	Molecular metamorphosis. Nature, 1991, 354, 22-23.	27.8	3
80	Who owns the data?. Genome Biology, 2005, 6, 107.	9.6	3
81	Instructions for repair. Genome Biology, 2006, 7, 106.	9.6	3
82	The wisdom, and madness, of crowds. Genome Biology, 2008, 9, 112.	9.6	3
83	The right to be wrong. Genome Biology, 2008, 9, 102.	9.6	3
84	Lost in translation. Genome Biology, 2010, 11, 107.	9.6	3
85	The devil's in the details. Genome Biology, 2010, 11, 117.	9.6	3
86	An Asilomar moment. Genome Biology, 2002, 3, comment1014.1.	9.6	2
87	Funky, not junky. Genome Biology, 2003, 4, 104.	9.6	2
88	Color blind. Genome Biology, 2004, 5, 119.	9.6	2
89	Pharmacogenomics arrives. Genome Biology, 2004, 5, 108.	9.6	2
90	H5N1. Genome Biology, 2005, 6, 121.	9.6	2

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91	They fought the law and the law won. Genome Biology, 2007, 8, 111.	9.6	2
92	Biodefense versus bioterrorism. Genome Biology, 2008, 9, 108.	9.6	2
93	What my genome told me - and what it didn't. Genome Biology, 2009, 10, 108.	9.6	2
94	Life is a Ponzi scheme. Genome Biology, 2009, 10, 101.	9.6	2
95	Open questions: Zombie projects, translational research, and the real secret of the inside of the cell. BMC Biology, 2013, 11, 97.	3.8	2
96	No place like Ome. Genome Biology, 2002, 3, comment1010.1.	9.6	1
97	Grain of truth. Genome Biology, 2002, 3, comment1007.1.	9.6	1
98	Live and let diet. Genome Biology, 2003, 5, 101.	9.6	1
99	The usual suspects. Genome Biology, 2003, 4, 118.	9.6	1
100	War and peace. Genome Biology, 2003, 4, 110.	9.6	1
101	Fame is a bubble, but not for some. Genome Biology, 2004, 5, 114.	9.6	1
102	A drop in the bucket. Genome Biology, 2004, 5, 112.	9.6	1
103	Bad chemistry. Genome Biology, 2004, 5, 102.	9.6	1
104	Eighty years ago. Genome Biology, 2005, 6, 114.	9.6	1
105	A matter of life and death. Genome Biology, 2005, 6, 109.	9.6	1
106	Feet in mouth disease. Genome Biology, 2005, 6, 105.	9.6	1
107	A model worth considering?. Genome Biology, 2006, 7, 121.	9.6	1
108	Transformation. Genome Biology, 2006, 7, 117.	9.6	1

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109	Senior moments. Genome Biology, 2006, 7, 113.	9.6	1
110	The ninth wave. Genome Biology, 2006, 7, 109.	9.6	1
111	Medicine man. Genome Biology, 2007, 8, 114.	9.6	1
112	It can't happen here - can it?. Genome Biology, 2007, 8, 105.	9.6	1
113	A day in the life of a genome biologist in the not-too-distant future. Genome Biology, 2007, 8, 104.	9.6	1
114	Jumping the shark. Genome Biology, 2007, 8, 101.	8.8	1
115	It is alive. Genome Biology, 2008, 9, 106.	9.6	1
116	Wimps? What wimps?. Genome Biology, 2009, 10, 109.	9.6	1
117	A harsh climate. Genome Biology, 2009, 10, 115.	9.6	1
118	Every dog has his day in court. Genome Biology, 2010, 11, 139.	8.8	1
119	And they said it wouldn't last.... Genome Biology, 2010, 11, 121.	9.6	1
120	Hand-made biology. Genome Biology, 2010, 11, 124.	9.6	1
121	Shadows on the wall. Genome Biology, 2010, 11, 136.	9.6	1
122	Bailing out. Genome Biology, 2011, 12, 131.	9.6	1
123	Dominoes. Genome Biology, 2011, 12, 134.	9.6	1
124	The Columnist Manifesto. Genome Biology, 2011, 12, 136.	9.6	1
125	Mending walls. BMC Biology, 2012, 10, 41.	3.8	1
126	Dissecting Comorbidity between Parkinsonâ€™s Disease and Melanoma in a Cell Culture Model. FASEB Journal, 2017, 31, 631.1-631.1.	0.5	1

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127	Seeing gene expression in cells: the future of structural biology. Faculty Reviews, 2021, 10, 79.	3.9	1
128	David Phillips (1924â€”99). Nature, 1999, 399, 26-26.	27.8	0
129	Everything I need to know about genomics, I learned from Yogi Berra. Genome Biology, 2002, 4, 102.	9.6	0
130	The guards themselves. Genome Biology, 2002, 3, comment1015.1.	9.6	0
131	Fish tale. Genome Biology, 2002, 3, comment1012.1.	9.6	0
132	Our own petards. Genome Biology, 2002, 3, comment1009.1.	9.6	0
133	For the good of the state. Genome Biology, 2003, 4, 121.	9.6	0
134	Sleeping dogs. Genome Biology, 2003, 4, 120.	9.6	0
135	The road worrier. Genome Biology, 2003, 4, 116.	9.6	0
136	Galileo's stepchildren. Genome Biology, 2003, 4, 114.	9.6	0
137	A new recruit for the army of the men of death. Genome Biology, 2003, 4, 113.	9.6	0
138	Ira. Genome Biology, 2003, 4, 112.	9.6	0
139	Judgement call. Genome Biology, 2003, 4, 108.	9.6	0
140	Still no flying cars. Genome Biology, 2003, 4, 106.	9.6	0
141	The emperor's new shibboleth. Genome Biology, 2004, 5, 118.	9.6	0
142	Twilight of a hero. Genome Biology, 2004, 5, 116.	9.6	0
143	The ascent of man?. Genome Biology, 2004, 5, 106.	9.6	0
144	Doctor Dunsel. Genome Biology, 2004, 5, 104.	9.6	0

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145	Good chemistry. Genome Biology, 2004, 5, 103.	9.6	0
146	Foxes and hounds. Genome Biology, 2005, 6, 124.	9.6	0
147	Half right. Genome Biology, 2005, 6, 120.	9.6	0
148	Trinity. Genome Biology, 2005, 6, 118.	9.6	0
149	The life aquatic. Genome Biology, 2005, 6, 116.	9.6	0
150	Tsunami. Genome Biology, 2005, 6, 104.	9.6	0
151	Facts and figures. Genome Biology, 2006, 7, 111.	9.6	0
152	Sweden has the right idea. Genome Biology, 2006, 7, 103.	9.6	0
153	What if Watson had said "Apes evolved from man"?. Genome Biology, 2007, 8, 113.	9.6	0
154	Strange days. Genome Biology, 2007, 8, 110.	9.6	0
155	Meta-morphosis. Genome Biology, 2008, 9, 111.	9.6	0
156	The new Manichaeans. Genome Biology, 2008, 9, 105.	9.6	0
157	Not debatable. Genome Biology, 2008, 9, 104.	9.6	0
158	The story they missed. Genome Biology, 2008, 9, 101.	9.6	0
159	Render unto Darwin. Genome Biology, 2009, 10, 106.	9.6	0
160	The dog days of autumn. Genome Biology, 2009, 10, 112.	9.6	0
161	The long and the short of it. Genome Biology, 2010, 11, 145.	9.6	0
162	When the pie is too small. Genome Biology, 2010, 11, 127.	9.6	0

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163	The past is a foreign country. Genome Biology, 2010, 11, 131.	8.8	0
164	Preserving some sanity. Genome Biology, 2011, 12, 102.	9.6	0
165	There is a sanity clause. Genome Biology, 2011, 12, 105.	9.6	0
166	The walking dead. Genome Biology, 2011, 12, 108.	9.6	0
167	Risky business. Genome Biology, 2011, 12, 119.	9.6	0
168	Nothing to do and all day to do it in. Genome Biology, 2011, 12, 126.	9.6	0
169	Food of the dogs. Genome Biology, 2011, 12, 122.	9.6	0
170	The dog particle. Genome Biology, 2012, 13, 142.	9.6	0
171	A case of the flu. Genome Biology, 2012, 13, 146.	9.6	0
172	Apocalypse now?. Genome Biology, 2012, 13, 151.	8.8	0
173	Economies of scale. Genome Biology, 2012, 13, 154.	9.6	0
174	O4â€02â€04: 25â€HYDROXYCHOLESTEROL AMPLIFIES MICROGLIAL NEUROINFLAMMATORY SIGNALING IN AN APOE ISOFORMâ€DEPENDENT MANNER. Alzheimer's and Dementia, 2018, 14, P1403.	0.8	0
175	F2â€02â€01: ENDOSOMAL TRAFFIC JAMS REPRESENT A PATHOGENIC HUB AND THERAPEUTIC TARGET IN ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2019, 15, P517.	0.8	0
176	A Gordon Conference Survival Guide. Science, 2000, 288, 1589-1589.	12.6	0
177	A christmas carol. Genome Biology, 2002, 3, COMMENT1001.	8.8	0
178	Atypical Kinase RIOK2 Is a Master Regulator of Hematopoietic Cell Fate. Blood, 2021, 138, 300-300.	1.4	0