Samuel H Gellman

List of Publications by Citations

301 papers	28,351 citations	84 h-index	161 g-index
314 ext. papers	30,378 ext. citations	12 avg, IF	7.24 L-index

#	Paper	IF	Citations
301	Crystal structure of the 2 adrenergic receptor-Gs protein complex. *Nature*, **2011**, 477, 549-55	50.4	2228
300	Foldamers: A Manifesto. *Accounts of Chemical Research*, **1998**, 31, 173-180	24.3	2178
299	beta-Peptides: from structure to function. *Chemical Reviews*, **2001**, 101, 3219-32	68.1	1633
298	Structure of a nanobody-stabilized active state of the (2) adrenoceptor. *Nature*, **2011**, 469, 175-80	50.4	1299
297	Structure and function of an irreversible agonist-(2) adrenoceptor complex. *Nature*, **2011**, 469, 236-40	50.4	664
296	Foldamers with heterogeneous backbones. *Accounts of Chemical Research*, **2008**, 41, 1399-408	24.3	607
295	Peptide Foldamers: Robust Helix Formation in a New Family of Amino Acid Oligomers. *Journal of the American Chemical Society*, **1996**, 118, 13071-13072	16.4	588
294	Non-haemolytic beta-amino-acid oligomers. *Nature*, **2000**, 404, 565	50.4	553
293	Residue-based control of helix shape in beta-peptide oligomers. *Nature*, **1997**, 387, 381-4	50.4	540
292	Mimicry of antimicrobial host-defense peptides by random copolymers. *Journal of the American Chemical Society*, **2007**, 129, 15474-6	16.4	361
291	Mimicry of host-defense peptides by unnatural oligomers: antimicrobial beta-peptides. *Journal of the American Chemical Society*, **2002**, 124, 7324-30	16.4	345
290	Minimal model systems for beta sheet secondary structure in proteins. *Current Opinion in Chemical Biology*, **1998**, 2, 717-25	9.7	322
289	Maltose-neopentyl glycol (MNG) amphiphiles for solubilization, stabilization and crystallization of membrane proteins. *Nature Methods*, **2010**, 7, 1003-8	21.6	316
288	Structure-activity studies of 14-helical antimicrobial beta-peptides: probing the relationship between conformational stability and antimicrobial potency. *Journal of the American Chemical Society*, **2002**, 124, 12774-85	16.4	245
287	Stereochemical Requirements for Hairpin Formation: Model Studies with Four-Residue Peptides and Depsipeptides. *Journal of the American Chemical Society*, **1996**, 118, 6975-6985	16.4	241
286	Diphenylprolinol methyl ether: a highly enantioselective catalyst for Michael addition of aldehydes to simple enones. *Organic Letters*, **2005**, 7, 4253-6	6.2	238
285	Rules for Antiparallel Sheet Design: d-Pro-Gly Is Superior to l-Asn-Gly for Hairpin Nucleation1. *Journal of the American Chemical Society*, **1998**, 120, 4236-4237	16.4	233

284	Insights on β-Hairpin Stability in Aqueous Solution from Peptides with Enforced Type I′ and Type II′ β-Turns. *Journal of the American Chemical Society*, **1997**, 119, 2303-2304	16.4	224
283	Structural and biological mimicry of protein surface recognition by alpha/beta-peptide foldamers. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14751-6	11.5	217
282	Intramolecular Hydrogen Bonding in Derivatives of .beta.-Alanine and .gamma.-Amino Butyric Acid; Model Studies for the Folding of Unnatural Polypeptide Backbones. *Journal of the American Chemical Society*, **1994**, 116, 1054-1062	16.4	217
281	Synthesis and Structural Characterization of Helix-Forming β-Peptides: trans-2-Aminocyclopentanecarboxylic Acid Oligomers. *Journal of the American Chemical Society*, **1999**, 121, 7574-7581	16.4	205
280	Translocation of a beta-peptide across cell membranes. *Journal of the American Chemical Society*, **2002**, 124, 368-9	16.4	203
279	Unexpected relationships between structure and function in alpha,beta-peptides: antimicrobial foldamers with heterogeneous backbones. *Journal of the American Chemical Society*, **2004**, 126, 6848-9	16.4	200
278	Artificial chaperone-assisted refolding of denatured-reduced lysozyme: modulation of the competition between renaturation and aggregation. *Biochemistry*, **1996**, 35, 15760-71	3.2	198
277	Interplay among folding, sequence, and lipophilicity in the antibacterial and hemolytic activities of alpha/beta-peptides. *Journal of the American Chemical Society*, **2007**, 129, 417-28	16.4	197
276	Structure-activity relationships among random nylon-3 copolymers that mimic antibacterial host-defense peptides. *Journal of the American Chemical Society*, **2009**, 131, 9735-45	16.4	194
275	Enantioselective organocatalytic Michael additions of aldehydes to enones with imidazolidinones: cocatalyst effects and evidence for an enamine intermediate. *Journal of the American Chemical Society*, **2005**, 127, 11598-9	16.4	189
274	Two helical conformations from a single foldamer backbone: "split personality" in short alpha/beta-peptides. *Angewandte Chemie - International Edition*, **2004**, 43, 505-10	16.4	189
273	Cytoplasmic and nuclear delivery of a TAT-derived peptide and a beta-peptide after endocytic uptake into HeLa cells. *Journal of Biological Chemistry*, **2003**, 278, 50188-94	5.4	189
272	Use of a Designed Triple-Stranded Antiparallel β-Sheet To Probe β-Sheet Cooperativity in Aqueous Solution. *Journal of the American Chemical Society*, **1998**, 120, 4869-4870	16.4	182
271	Synthesis and Characterization of trans-2-Aminocyclohexanecarboxylic Acid Oligomers: An Unnatural Helical Secondary Structure and Implications for β-Peptide Tertiary Structure. *Journal of the American Chemical Society*, **1999**, 121, 6206-6212	16.4	177
270	Helix bundle quaternary structure from alpha/beta-peptide foldamers. *Journal of the American Chemical Society*, **2007**, 129, 4178-80	16.4	175
269	Catalytic transamidation under moderate conditions. *Journal of the American Chemical Society*, **2003**, 125, 3422-3	16.4	172
268	Formation of Short, Stable Helices in Aqueous Solution by β-Amino Acid Hexamers. *Journal of the American Chemical Society*, **1999**, 121, 2309-2310	16.4	172
267	Antiparallel Sheet Formation in β-Peptide Foldamers: Effects of β-Amino Acid Substitution on Conformational Preference1. *Journal of the American Chemical Society*, **1997**, 119, 11719-11720	16.4	169

266	Chimeric (alpha/beta + alpha)-peptide ligands for the BH3-recognition cleft of Bcl-XL: critical role of the molecular scaffold in protein surface recognition. *Journal of the American Chemical Society*, **2005**, 127, 11966-8	16.4	161
265	Enantioselective organocatalytic aminomethylation of aldehydes: a role for ionic interactions and efficient access to beta2-amino acids. *Journal of the American Chemical Society*, **2006**, 128, 6804-5	16.4	160
264	Targeting protein-protein interactions: lessons from p53/MDM2. *Biopolymers*, **2007**, 88, 657-86	2.2	159
263	(alpha/beta+alpha)-peptide antagonists of BH3 domain/Bcl-x(L) recognition: toward general strategies for foldamer-based inhibition of protein-protein interactions. *Journal of the American Chemical Society*, **2007**, 129, 139-54	16.4	156
262	Enantioselective organocatalytic Michael addition of aldehydes to nitroethylene: efficient access to gamma2-amino acids. *Journal of the American Chemical Society*, **2008**, 130, 5608-9	16.4	152
261	Catalytic transamidation reactions compatible with tertiary amide metathesis under ambient conditions. *Journal of the American Chemical Society*, **2009**, 131, 10003-8	16.4	151
260	Tuning the biological activity profile of antibacterial polymers via subunit substitution pattern. *Journal of the American Chemical Society*, **2014**, 136, 4410-8	16.4	150
259	Dual mechanism of bacterial lethality for a cationic sequence-random copolymer that mimics host-defense antimicrobial peptides. *Journal of Molecular Biology*, **2008**, 379, 38-50	6.5	150
258	Biocidal activity of polystyrenes that are cationic by virtue of protonation. *Organic Letters*, **2004**, 6, 557-60	6.2	137
257	A rationally designed aldolase foldamer. *Angewandte Chemie - International Edition*, **2009**, 48, 922-5	16.4	136
256	Antifungal activity from 14-helical beta-peptides. *Journal of the American Chemical Society*, **2006**, 128, 12630-1	16.4	135
255	Modulation of hydrophobic interactions by proximally immobilized ions. *Nature*, **2015**, 517, 347-50	50.4	134
254	Evaluation of diverse β/α backbone patterns for functional α-helix mimicry: analogues of the Bim BH3 domain. *Journal of the American Chemical Society*, **2012**, 134, 315-23	16.4	133
253	High-resolution structural characterization of a helical alpha/beta-peptide foldamer bound to the anti-apoptotic protein Bcl-xL. *Angewandte Chemie - International Edition*, **2009**, 48, 4318-22	16.4	133
252	Interstrand side chain--side chain interactions in a designed beta-hairpin: significance of both lateral and diagonal pairings. *Journal of the American Chemical Society*, **2001**, 123, 8667-77	16.4	127
251	12-Helix Formation in Aqueous Solution with Short β-Peptides Containing Pyrrolidine-Based Residues. *Journal of the American Chemical Society*, **2000**, 122, 4821-4822	16.4	127
250	A β-Peptide Reverse Turn that Promotes Hairpin Formation. *Journal of the American Chemical Society*, **1998**, 120, 10555-10556	16.4	127
249	Stereospecific synthesis of conformationally constrained gamma-amino acids: new foldamer building blocks that support helical secondary structure. *Journal of the American Chemical Society*, **2009**, 131, 16018-20	16.4	126

248	Sequence-based design of alpha/beta-peptide foldamers that mimic BH3 domains. *Angewandte Chemie - International Edition*, **2008**, 47, 2853-6	16.4	125
247	PTH receptor-1 signalling-mechanistic insights and therapeutic prospects. *Nature Reviews Endocrinology*, **2015**, 11, 712-24	15.2	121
246	Toward beta-peptide tertiary structure: self-association of an amphiphilic 14-helix in aqueous solution. *Organic Letters*, **2001**, 3, 3963-6	6.2	119
245	A Designed beta-Hairpin Containing a Natural Hydrophobic Cluster This research was supported by the National Science Foundation (CHE-9820952). J.F.E. was supported by a fellowship from the Ministerio de Educacion y Cultura (Spain) and the Fulbright Commission. The mass spectrometer	16.4	115
244	Residue requirements for helical folding in short alpha/beta-peptides: crystallographic characterization of the 11-helix in an optimized sequence. *Journal of the American Chemical Society*, **2005**, 127, 13130-1	16.4	114
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240	"Mirror image" reverse turns promote .beta.-hairpin formation. *Journal of the American Chemical Society*, **1994**, 116, 4105-4106	16.4	111
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238	NMR-Based Quantification of Sheet Populations in Aqueous Solution through Use of Reference Peptides for the Folded and Unfolded States. *Journal of the American Chemical Society*, **1999**, 121, 11577-11578	16.4	109
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236	Nylon-3 polymers with selective antifungal activity. *Journal of the American Chemical Society*, **2013**, 135, 5270-3	16.4	102
235	Interplay among side chain sequence, backbone composition, and residue rigidification in polypeptide folding and assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9151-6	11.5	99
234	Antimicrobial 14-helical beta-peptides: potent bilayer disrupting agents. *Biochemistry*, **2004**, 43, 9527-35	3.2	94
233	Efficient synthesis of a beta-peptide combinatorial library with microwave irradiation. *Journal of the American Chemical Society*, **2005**, 127, 13271-80	16.4	93
232	Interplay between hydrophobic cluster and loop propensity in beta-hairpin formation. *Journal of Molecular Biology*, **2001**, 306, 397-402	6.5	93
231	Theoretical and Experimental Circular Dichroic Spectra of the Novel Helical Foldamer Poly[(1R,2R)-trans-2-aminocyclopentanecarboxylic acid]. *Journal of the American Chemical Society*, **1998**, 120, 4891-4892	16.4	93

230	New helical foldamers: heterogeneous backbones with 1:2 and 2:1 alpha:beta-amino acid residue patterns. *Journal of the American Chemical Society*, **2006**, 128, 4538-9	16.4	92
229	Rational development of beta-peptide inhibitors of human cytomegalovirus entry. *Journal of Biological Chemistry*, **2006**, 281, 2661-7	5.4	90
228	Effects of conformational stability and geometry of guanidinium display on cell entry by beta-peptides. *Journal of the American Chemical Society*, **2005**, 127, 3686-7	16.4	90
227	Nanofibers and lyotropic liquid crystals from a class of self-assembling beta-peptides. *Angewandte Chemie - International Edition*, **2008**, 47, 1241-4	16.4	89
226	Structure-activity relationships among antifungal nylon-3 polymers: identification of materials active against drug-resistant strains of Candida albicans. *Journal of the American Chemical Society*, **2014**, 136, 4333-42	16.4	88
225	Backbone modification of a polypeptide drug alters duration of action in vivo. *Nature Biotechnology* , **2014**, 32, 653-5	44.5	88
224	A new class of amphiphiles bearing rigid hydrophobic groups for solubilization and stabilization of membrane proteins. *Chemistry - A European Journal*, **2012**, 18, 9485-90	4.8	87
223	Discrete heterogeneous quaternary structure formed by alpha/beta-peptide foldamers and alpha-peptides. *Journal of the American Chemical Society*, **2007**, 129, 6376-7	16.4	87
222	Stabilizing and destabilizing effects of phenylalanine --> F5-phenylalanine mutations on the folding of a small protein. *Journal of the American Chemical Society*, **2006**, 128, 15932-3	16.4	86
221	Parallel sheet secondary structure in gamma-peptides. *Journal of the American Chemical Society*, **2001**, 123, 11077-8	16.4	86
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219	Helix formation in preorganized beta/gamma-peptide foldamers: hydrogen-bond analogy to the alpha-helix without alpha-amino acid residues. *Journal of the American Chemical Society*, **2010**, 132, 7868-9	16.4	84
218	Crystallographic characterization of helical secondary structures in alpha/beta-peptides with 1:1 residue alternation. *Journal of the American Chemical Society*, **2008**, 130, 6544-50	16.4	84
217	-Peptide Foldamers Targeting Intracellular Protein-Protein Interactions with Activity in Living Cells. *Journal of the American Chemical Society*, **2015**, 137, 11365-75	16.4	81
216	Efficient synthesis of enantiomerically pure beta2-amino acids via chiral isoxazolidinones. *Journal of Organic Chemistry*, **2003**, 68, 1575-8	4.2	81
215	Extending foldamer design beyond -helix mimicry: -peptide inhibitors of vascular endothelial growth factor signaling. *Journal of the American Chemical Society*, **2012**, 134, 7652-5	16.4	80
214	Mechanism of Al(III)-catalyzed transamidation of unactivated secondary carboxamides. *Journal of the American Chemical Society*, **2006**, 128, 5177-83	16.4	80
213	Parallel -sheet vibrational couplings revealed by 2D IR spectroscopy of an isotopically labeled macrocycle: quantitative benchmark for the interpretation of amyloid and protein infrared spectra. *Journal of the American Chemical Society*, **2012**, 134, 19118-28	16.4	78

212	Tandem facial amphiphiles for membrane protein stabilization. *Journal of the American Chemical Society*, **2010**, 132, 16750-2	16.4	77
211	Energetic Superiority of Two-Center Hydrogen Bonding Relative To Three-Center Hydrogen Bonding in a Model System. *Journal of the American Chemical Society*, **1998**, 120, 9090-9091	16.4	76
210	Lyotropic liquid crystals from designed helical beta-peptides. *Journal of the American Chemical Society*, **2006**, 128, 8730-1	16.4	75
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208	Backbone thioester exchange: a new approach to evaluating higher order structural stability in polypeptides. *Journal of the American Chemical Society*, **2004**, 126, 11172-4	16.4	74
207	Redox-Triggered Secondary Structure Changes in the Aggregated States of a Designed Methionine-Rich Peptide. *Journal of the American Chemical Society*, **1996**, 118, 12487-12494	16.4	74
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205	Intranasal fusion inhibitory lipopeptide prevents direct-contact SARS-CoV-2 transmission in ferrets. *Science*, **2021**, 371, 1379-1382	33.3	72
204	A potent peptide analogue of GLP-1 with prolonged action in vivo. *Journal of the American Chemical Society*, **2014**, 136, 12848-51	16.4	70
203	Practical synthesis of enantiomerically pure beta2-amino acids via proline-catalyzed diastereoselective aminomethylation of aldehydes. *Journal of the American Chemical Society*, **2007**, 129, 6050-5	16.4	69
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201	Rigid Amphiphiles for Membrane Protein Manipulation. *Angewandte Chemie - International Edition*, **2000**, 39, 758-761	16.4	69
200	Targeting recognition surfaces on natural proteins with peptidic foldamers. *Current Opinion in Structural Biology*, **2016**, 39, 96-105	8.1	68
199	Glucose-neopentyl glycol (GNG) amphiphiles for membrane protein study. *Chemical Communications*, **2013**, 49, 2287-9	5.8	67
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197	Control of Hairpin Formation via Proline Configuration in Parallel Sheet Model Systems. *Journal of the American Chemical Society*, **2000**, 122, 5443-5447	16.4	67
196	An efficient route to either enantiomer of trans-2-aminocyclopentanecarboxylic acid. *Journal of Organic Chemistry*, **2001**, 66, 5629-32	4.2	67
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184	Structure-guided rational design of /E-peptide foldamers with high affinity for BCL-2 family prosurvival proteins. *ChemBioChem*, **2013**, 14, 1564-72	3.8	58
183	Two Helical Conformations from a Single Foldamer Backbone: Split Personality in Short /E-Peptides. *Angewandte Chemie*, **2004**, 116, 511-516	3.6	58
182	An alpha/beta-peptide helix bundle with a pure beta3-amino acid core and a distinctive quaternary structure. *Journal of the American Chemical Society*, **2009**, 131, 9860-1	16.4	57
181	Crystallographic characterization of the alpha/beta-peptide 14/15-helix. *Journal of the American Chemical Society*, **2007**, 129, 13780-1	16.4	56
180	-Arrestin-Biased Agonists of the GLP-1 Receptor from -Amino Acid Residue Incorporation into GLP-1 Analogues. *Journal of the American Chemical Society*, **2016**, 138, 14970-14979	16.4	54
179	Parallel sheet secondary structure in beta-peptides. *Angewandte Chemie - International Edition*, **2003**, 42, 2402-5	16.4	54
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176	Synthetic polymers active against Clostridium difficile vegetative cell growth and spore outgrowth. *Journal of the American Chemical Society*, **2014**, 136, 14498-504	16.4	52
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157	Building proficient enzymes with foldamer prostheses. *Angewandte Chemie - International Edition*, **2014**, 53, 6978-81	16.4	45
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155	Tripod Amphiphiles for Membrane Protein Manipulation. *Molecular BioSystems*, **2010**, 6, 89-94		44
154	Origins of the high 14-helix propensity of cyclohexyl-rigidified residues in beta-peptides. *Organic Letters*, **2007**, 9, 1801-4	6.2	44
153	New preorganized β-amino acids as foldamer building blocks. *Organic Letters*, **2012**, 14, 2582-5	6.2	43
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150	Parallel β-sheet secondary structure is stabilized and terminated by interstrand disulfide cross-linking. *Journal of the American Chemical Society*, **2012**, 134, 75-8	16.4	42
149	Characterization of nanofibers formed by self-assembly of beta-peptide oligomers using small angle x-ray scattering. *Journal of Chemical Physics*, **2008**, 129, 095103	3.9	42
148	Characterization of signal bias at the GLP-1 receptor induced by backbone modification of GLP-1. *Biochemical Pharmacology*, **2017**, 136, 99-108	6	40
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