

Jeffrey I Seeman

List of Publications by Year in descending order

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91
papers

2,544
citations

304368

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205818

48
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95
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95
docs citations

95
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of conformational change on reactivity in organic chemistry. Evaluations, applications, and extensions of Curtin-Hammett Winstein-Holness kinetics. <i>Chemical Reviews</i> , 1983, 83, 83-134.	23.0	856
2	Observation and Characterization of Cellulose Pyrolysis Intermediates by ¹³ C CPMAS NMR. A New Mechanistic Model. <i>Energy & Fuels</i> , 2004, 18, 1-15.	2.5	126
3	Acetaldehyde in Mainstream Tobacco Smoke: Formation and Occurrence in Smoke and Bioavailability in the Smoker. <i>Chemical Research in Toxicology</i> , 2002, 15, 1331-1350.	1.7	111
4	Formation of low molecular weight heterocycles and polycyclic aromatic compounds (PACs) in the pyrolysis of α -amino acids. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 66, 97-121.	2.6	109
5	The Woodward-Doering/Rabe-Kindler Total Synthesis of Quinine: Setting the Record Straight. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1378-1413.	7.2	90
6	Evolution of the Diels-Alder Reaction Mechanism since the 1930s: Woodward, Houk with Woodward, and the Influence of Computational Chemistry on Understanding Cycloadditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12660-12681.	7.2	85
7	On the role of peptides in the pyrolysis of amino acids. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 153-163.	2.6	71
8	The Form of Nicotine in Tobacco. Thermal Transfer of Nicotine and Nicotine Acid Salts to Nicotine in the Gas Phase. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 5133-5145.	2.4	63
9	Influences on Authorship Issues: An Evaluation of Receiving, Not Receiving, and Rejecting Credit. <i>Accountability in Research</i> , 2010, 17, 176-197.	1.6	53
10	Scientific assessment of the use of sugars as cigarette tobacco ingredients: A review of published and other publicly available studies. <i>Critical Reviews in Toxicology</i> , 2012, 42, 244-278.	1.9	53
11	Photochemical rearrangement of an acyclic β,γ -unsaturated ketone to a conjugated cyclopropyl ketone. An oxa-di-pi-methane rearrangement. <i>Journal of the American Chemical Society</i> , 1970, 92, 1786-1787.	6.6	51
12	The iodomethylation of nicotine. An unusual example of competitive nitrogen alkylation. <i>Journal of Organic Chemistry</i> , 1976, 41, 3824-3826.	1.7	41
13	Analytical solution to the Curtin-Hammett/Winstein-Holness kinetic system. <i>Journal of Organic Chemistry</i> , 1978, 43, 1854-1864.	1.7	33
14	Recent Studies in Nicotine Chemistry. Conformational Analysis, Chemical Reactivity Studies, and Theoretical Modeling. <i>Heterocycles</i> , 1984, 22, 165.	0.4	33
15	The possible role of ammonia toxicity on the exposure, deposition, retention, and the bioavailability of nicotine during smoking. <i>Food and Chemical Toxicology</i> , 2008, 46, 1863-1881.	1.8	32
16	Wrong but seminal. <i>Nature Chemistry</i> , 2016, 8, 193-200.	6.6	32
17	Woodward-Hoffmann's Stereochemistry of Electrocyclic Reactions: From Day 1 to the JACS Receipt Date (May 5, 1964 to November 30, 1964). <i>Journal of Organic Chemistry</i> , 2015, 80, 11632-11671.	1.7	31
18	Evaluation of Relationships Between Mainstream Smoke Acetaldehyde and "Tar" and Carbon Monoxide Yields in Tobacco Smoke and Reducing Sugars in Tobacco Blends of U.S. Commercial Cigarettes. <i>Inhalation Toxicology</i> , 2003, 15, 373-395.	0.8	30

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19	Steric effects on conformationally mobile systems. The iodomethylation of 1-methyl-2-arylpyrrolidines related to nicotine. <i>Journal of the American Chemical Society</i> , 1980, 102, 7741-7747.	6.6	27
20	Credit and Authorship Practices: Educational and Environmental Influences. <i>Accountability in Research</i> , 2010, 17, 223-256.	1.6	27
21	On the Deposition of Volatiles and Semivolatiles from Cigarette Smoke Aerosols: Relative Rates of Transfer of Nicotine and Ammonia from Particles to the Gas Phase. <i>Chemical Research in Toxicology</i> , 2004, 17, 1020-1037.	1.7	26
22	Possible Role of Ammonia on the Deposition, Retention, and Absorption of Nicotine in Humans while Smoking. <i>Chemical Research in Toxicology</i> , 2007, 20, 326-343.	1.7	25
23	Influences on Authorship Issues: An Evaluation of Giving Credit. <i>Accountability in Research</i> , 2010, 17, 146-169.	1.6	24
24	Woodward's Words: Elegant and Commanding. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12898-12912.	7.2	24
25	Gilbert Stork: In His Own Words and in the Musings of His Friends. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3012-3023.	7.2	23
26	R. B. Woodward, A Great Physical Organic Chemist. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 708-721.	0.9	23
27	Authorship Issues and Conflict in the U.S. Academic Chemical Community. <i>Accountability in Research</i> , 2015, 22, 346-383.	1.6	23
28	Bonding Beyond Borders: The Nozoe Autograph Books and Other Collections. <i>Chemical Record</i> , 2012, 12, 517-531.	2.9	21
29	The role of ammonia in the transfer of nicotine from tobacco to mainstream smoke. <i>Regulatory Toxicology and Pharmacology</i> , 2006, 46, 1-17.	1.3	17
30	R. B. Woodward: A Larger than Life Chemistry Rock Star. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10228-10245.	7.2	15
31	On the Relationship between Classical Structure Determination and Retrosynthetic Analysis/Total Synthesis. <i>Israel Journal of Chemistry</i> , 2018, 58, 28-44.	1.0	15
32	Die Evolution des Diels-Alder-Reaktionsmechanismus seit den 1930er Jahren: Woodward, Houk zusammen mit Woodward und der Einfluss der Computerchemie auf das Verständnis von Cycloadditionen. <i>Angewandte Chemie</i> , 2021, 133, 12768-12790.	1.6	15
33	Thermal Pathways for the Transfer of Amines, Including Nicotine, to the Gas Phase and Aerosols. <i>Heterocycles</i> , 2001, 55, 59.	0.4	15
34	Carl Djerassi: In His Own Words. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3268-3279.	7.2	14
35	From Decades to Minutes: Steps Toward the Structure of Strychnine 1910-1948 and the Application of Today's Technology. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10702-10721.	7.2	14
36	Woodward's Words: Elegant and Commanding. <i>Angewandte Chemie</i> , 2016, 128, 13090-13104.	1.6	13

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37	Rolf Huisgen's Classic Studies of Cyclic Triene Diels-Alder Reactions Elaborated by Modern Computational Analysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12506-12519.	7.2	13
38	Having Fun with The Nozoe Autograph Books. A Bit of Exploration and an Unexpected Learning Experience. <i>Chemical Record</i> , 2013, 13, 146-160.	2.9	12
39	Synthesis and the Nobel Prize in Chemistry. <i>Nature Chemistry</i> , 2017, 9, 925-929.	6.6	12
40	Using "Basic Principles" To Understand Complex Science: Nicotine Smoke Chemistry and Literature Analogies. <i>Journal of Chemical Education</i> , 2005, 82, 1577.	1.1	11
41	The Nozoe Autograph Books: Stories behind the Stories. <i>Chemical Record</i> , 2013, 13, 483-514.	2.9	11
42	The Mutation of the "Nobel Prize in Chemistry" into the "Nobel Prize in Chemistry or Life Sciences": Several Decades of Transparent and Opaque Evidence of Change within the Nobel Prize Program. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2942-2961.	7.2	11
43	John D. Roberts: In His Own Words and Those of His Friends. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15901-15913.	7.2	10
44	Rolf Huisgen, Eminent Chemist and Polymath (1920-2020): In His Own Words and In His Publication Metrics. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12250-12266.	7.2	10
45	Uses and analyses of Curtin-Hammett/Winstein-Holness systems involving second order reactions. <i>Tetrahedron</i> , 1980, 36, 1173-1177.	1.0	8
46	R. B. Woodward's Letters: Revealing, Elegant and Commanding. <i>Helvetica Chimica Acta</i> , 2017, 100, e1700183.	1.0	8
47	The Relationship of William Henry Perkin, Jr. and Sir Robert Robinson: Teacher and Student, then Student and Teacher. <i>Chemistry - A European Journal</i> , 2021, 27, 1576-1591.	1.7	8
48	A Model To Estimate the Sources of Tobacco-Specific Nitrosamines in Cigarette Smoke. <i>Chemical Research in Toxicology</i> , 2017, 30, 1556-1561.	1.7	7
49	From "multiple simultaneous independent discoveries" to the theory of "multiple simultaneous independent errors": a conduit in science. <i>Foundations of Chemistry</i> , 2018, 20, 219-249.	0.4	7
50	On the Structural Assignments Underlying R. B. Woodward's Most Personal Data That Led to the Woodward-Hoffmann Rules: Subramania Ranganathan's Key Role and Related Research by E. J. Corey and A. G. Hortmann. <i>Chemistry - A European Journal</i> , 2021, 27, 7000-7016.	1.7	7
51	Kenichi Fukui, Frontier Molecular Orbital Theory, and the Woodward-Hoffmann Rules. Part III. Fukui's Science and Technology, 1918-1965 ^{**} . <i>Chemical Record</i> , 2022, 22, e202100302.	2.9	7
52	The Nozoe Autograph Books: Instructions for Data Entry Website. <i>Chemical Record</i> , 2012, 12, 532-535.	2.9	6
53	John D. Roberts: In His Own Words and Those of His Friends. <i>Angewandte Chemie</i> , 2015, 127, 16132-16144.	1.6	6
54	Taking IUPAC Literally: Woodward's Pure and Applied Chemistry Words. <i>Chemistry International</i> , 2017, 39, .	0.3	6

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55	Moving beyond insularity in the history, philosophy, and sociology of chemistry. <i>Foundations of Chemistry</i> , 2018, 20, 75-86.	0.4	6
56	The Mutation of the "Nobel Prize in Chemistry" into the "Nobel Prize in Chemistry or Life Sciences": Several Decades of Transparent and Opaque Evidence of Change within the Nobel Prize Program. <i>Angewandte Chemie</i> , 2020, 132, 2962-2981.	1.6	6
57	The Ways of Science Through the Lens of the Woodward-Hoffmann Rules. The Stories Begin ^[</sup><sup>] ^{</sup>**. <i>Chemical Record</i>, 2022, 22, .}	2.9	6
58	Tetsuo Nozoe: The World Traveler, On a Determined Trajectory. <i>Chemical Record</i> , 2014, 14, 1152-1173.	2.9	5
59	R. B. Woodward: A Larger-than-Life Chemistry Rock Star. <i>Angewandte Chemie</i> , 2017, 129, 10362-10379.	1.6	5
60	History of the Woodward-Hoffmann Rules. The No-Mechanism Puzzle**. <i>Chemical Record</i> , 2022, 22, e202100212.	2.9	5
61	Kenichi Fukui, Frontier Molecular Orbital Theory, and the Woodward-Hoffmann Rules. Part II. A Sleeping Beauty in Chemistry ^{<sup>â€} ^{</sup>**. <i>Chemical Record</i>, 2022, 22, e202100300.}	2.9	5
62	Ernest L. Eliel: A life of purpose, determination, and integrity. <i>Chirality</i> , 2002, 14, 98-109.	1.3	4
63	The Tetsuo Nozoe Autograph Books: "It Ain't Over 'Til It's Over". <i>Chemical Record</i> , 2015, 15, 412-418.	2.9	4
64	Hero Worship in Words: Imitating the Grand Style of R. B. Woodward. <i>Chemistry International</i> , 2017, 39, .	0.3	4
65	From Decades to Minutes: Steps Toward the Structure of Strychnine 1910-1948 and the Application of Today's Technology. <i>Angewandte Chemie</i> , 2020, 132, 10790-10809.	1.6	4
66	Peer review experiences of academic chemists in Ph.D. granting institutions in the United States. <i>Accountability in Research</i> , 2023, 30, 63-76.	1.6	4
67	Sleeping Beauties in Chemistry. Oosterhoff, Havinga and Schlatmann: Four Years Before "The Woodward-Hoffmann Rules" ^{<sup>â€} ^{</sup>**. <i>Chemical Record</i>, 2022, 22, e202100245.}	2.9	4
68	The Many Chemists Who Could Have Proposed the Woodward-Hoffmann Rules But Didn't: The Organic Chemists Who "Discovered the Smoking Guns" ^[</sup><sup>] ^{</sup>**. <i>Chemical Record</i>, 2022, 22, .}	2.9	4
69	Tetsuo Nozoe's Autograph Books: Poems, Puzzles and Playfulness. <i>Chemical Record</i> , 2015, 15, 383-411.	2.9	3
70	Peer Review of Mendeleev's 1869 Breakthrough Paper: "I Suggest Eliminating the Table". <i>Helvetica Chimica Acta</i> , 2019, 102, e1800177.	1.0	3
71	Diverse Views in the Assignment of Credit for Research Discoveries. <i>ACS Omega</i> , 2022, 7, 1-4.	1.6	3
72	The Many Chemists Who Could Have Proposed the Woodward-Hoffmann Rules (Including Roald Tj ETQqO O O rgBT /Overlock 10 Tf 50 22, e202200052.	2.9	3

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73	“For Its Size, the Most Complex Natural Product Known.” Who Deserves Credit for Determining the Structure of Strychnine?. ACS Central Science, 2022, 8, 672-681.	5.3	3
74	Percy Lavon Julian: A man who rose to every occasion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	3
75	Estate Planning. Chemical & Engineering News, 2012, 90, 3.	0.2	2
76	The ^Nozoe Autograph Books Project: An Assessment. Chemical Record, 2015, 15, 1165-1174.	2.9	2
77	Second-Guessing the Nobel Prize Committee for Chemistry. ACS Symposium Series, 2017, , 9-29.	0.5	2
78	Rolf Huisgen, Eminent Chemist and Polymath (1920–2020): In His Own Words and In His Publication Metrics. Angewandte Chemie, 2020, 132, 12346-12362.	1.6	2
79	My first and my latest publication. Journal of Physical Organic Chemistry, 2022, 35, .	0.9	2
80	Kenichi Fukui, Frontier Molecular Orbital Theory, and the Woodward–Hoffmann Rules. Part I. The Person ^{â€‹} **. Chemical Record, 2022, 22, e202100297.	2.9	2
81	Ethics and Responsible Conduct of Research within the Chemical Community. Ideas and Experiences Worth Sharing. Accountability in Research, 2015, 22, 303-306.	1.6	1
82	John D. Roberts, a tenacious yet benevolent role model and an uncelebrated historian of chemistry. Journal of Physical Organic Chemistry, 2018, 31, e3825.	0.9	1
83	Working with Sir Derek H. R. Barton. “Chemistry, through Chemistry and For Chemistry” Tetrahedron, 2019, 75, 57-69.	1.0	1
84	Rolf Huisgen's Classic Studies of Cyclic Triene Diels–Alder Reactions Elaborated by Modern Computational Analysis. Angewandte Chemie, 2020, 132, 12606-12619.	1.6	1
85	An Iraqi by Birth, an Israeli in Body, a Soul without Borders. Sason Shaik in His Own Words **. Israel Journal of Chemistry, 0, , .	1.0	1
86	To Our Friend and Colleague Koji Nakanishi: “Happy 90th Birthday” Chemical Record, 2015, 15, 653-658.	2.9	0
87	Taking IUPAC Literally: An International Union of Pure and Applied Chemistry. Chemistry International, 2015, 37, .	0.3	0
88	Gary H. Posner: Professor, Scientist, Colleague, Role Model, and Friend. Tetrahedron, 2016, 72, 5950-5955.	1.0	0
89	Happy 90th birthday, Jerry Meinwald. Chemoecology, 2017, 27, 49-50.	0.6	0
90	Ernest L. Eliel as “Hidden Advisor” ACS Symposium Series, 2017, , 13-47.	0.5	0

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91	Stories and Stories-Behind-the Stories of the Woodward-Hoffmann Rules. ChemistryViews, 0, , .	0.0	0