

Eric R Scerri

List of Publications by Year in descending order

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Version: 2024-02-01

184
papers

1,581
citations

361045

20
h-index

414034

32
g-index

198
all docs

198
docs citations

198
times ranked

485
citing authors

#	ARTICLE	IF	CITATIONS
1	Various forms of the periodic table including the left-step table, the regularization of atomic number triads and first-member anomalies. ChemTexts, 2022, 8, 1.	1.0	1
2	Editorial 70 (the platinum issue). Foundations of Chemistry, 2022, 24, 1-2.	0.4	0
3	Hasok Chang on the nature of acids. Foundations of Chemistry, 2022, 24, 389-404.	0.4	6
4	Provisional Report on Discussions on Group 3 of The Periodic Table. Chemistry International, 2021, 43, 31-34.	0.3	13
5	The Impact of Twentieth-Century Physics on the Periodic Table and Some Remaining Questions in the Twenty-First Century. Perspectives on the History of Chemistry, 2021, , 409-423.	0.1	1
6	Response to Geoffrey Neuss on how to teach the 4s and 3d orbital conundrum. Foundations of Chemistry, 2021, 23, 247.	0.4	0
7	Editorial 67. Foundations of Chemistry, 2021, 23, 1-2.	0.4	0
8	Editorial 68. Foundations of Chemistry, 2021, 23, 135-136.	0.4	0
9	Editorial 69. Foundations of Chemistry, 2021, 23, 297-298.	0.4	0
10	The periodic table and the turn to practice. Studies in History and Philosophy of Science Part A, 2020, 79, 87-93.	0.6	2
11	Editorial 65. Foundations of Chemistry, 2020, 22, 135-136.	0.4	0
12	Recent attempts to change the periodic table. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190300.	1.6	19
13	Editorial 66. Foundations of Chemistry, 2020, 22, 347-347.	0.4	0
14	Editorial 64. Foundations of Chemistry, 2020, 22, 1-2.	0.4	0
15	Causation, electronic configurations and the periodic table. Synthèse, 2020, 198, 9709.	0.6	5
16	On Chemical Natural Kinds. Journal for General Philosophy of Science, 2020, 51, 427-445.	0.7	2
17	Editorial 61. Foundations of Chemistry, 2019, 21, 1-2.	0.4	0
18	Editorial 62. Foundations of Chemistry, 2019, 21, 137-138.	0.4	0

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19	Can quantum ideas explain chemistry's greatest icon?. Nature, 2019, 565, 557-559.	13.7	22
20	Examining the periodic table's quantum connections, by Eric Scerri. C&EN Global Enterprise, 2019, 97, 38-39.	0.0	0
21	Editorial 63. Foundations of Chemistry, 2019, 21, 253-254.	0.4	0
22	Happy 150th Birthday to the Periodic Table. Chemistry - A European Journal, 2019, 25, 7410-7415.	1.7	12
23	Five ideas in chemical education that must die. Foundations of Chemistry, 2019, 21, 61-69.	0.4	10
24	Looking Backwards and Forwards at the Development of the Periodic Table. Chemistry International, 2019, 41, 16-20.	0.3	10
25	The Periodic Table. , 2019, , .		36
26	Periodic table turns 150 in 2019. C&EN Global Enterprise, 2018, 96, 2-2.	0.0	0
27	Editorial 58. Foundations of Chemistry, 2018, 20, 1-2.	0.4	3
28	Editorial 60. Foundations of Chemistry, 2018, 20, 167-168.	0.4	0
29	Editorial 59. Foundations of Chemistry, 2018, 20, 87-88.	0.4	0
30	What Elements Belong in Group 3 of the Periodic Table?. , 2018, , .		3
31	On the nature of chemistry. Educacion Quimica, 2018, 10, 74.	0.1	3
32	Editorial 56. Foundations of Chemistry, 2017, 19, 95-96.	0.4	0
33	Editorial 55. Foundations of Chemistry, 2017, 19, 1-1.	0.4	1
34	Editorial 57. Foundations of Chemistry, 2017, 19, 181-181.	0.4	0
35	The Gulf between chemistry and philosophy of chemistry, then and now. Structural Chemistry, 2017, 28, 1599-1605.	1.0	3
36	On the Madelung Rule. Inference, 2017, 3, .	0.0	0

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37	Editorial 53. Foundations of Chemistry, 2016, 18, 87-87.	0.4	0
38	Editorial 54. Foundations of Chemistry, 2016, 18, 177-178.	0.4	0
39	Editorial 52. Foundations of Chemistry, 2016, 18, 1-2.	0.4	0
40	Another four bricks in the wall. Nature Chemistry, 2016, 8, 283-288.	6.6	5
41	Editorial 50. Foundations of Chemistry, 2015, 17, 91-92.	0.4	0
42	Editorial 51. Foundations of Chemistry, 2015, 17, 181-181.	0.4	0
43	Editorial 49. Foundations of Chemistry, 2015, 17, 1-3.	0.4	1
44	The discovery of the periodic table as a case of simultaneous discovery. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140172.	1.6	14
45	On the Naming and Symbols for Elements 115 and 112. Chemistry International, 2014, 36, .	0.3	0
46	Editorial 48. Foundations of Chemistry, 2014, 16, 175-175.	0.4	0
47	Editorial 46. Foundations of Chemistry, 2014, 16, 1-2.	0.4	0
48	Editorial 47. Foundations of Chemistry, 2014, 16, 85-86.	0.4	0
49	Master of Missing Elements. American Scientist, 2014, 102, 358.	0.1	2
50	Un relato sobre Siete Elementos. Revista Eureka Sobre Enseñanza Y Divulgación De Las Ciencias, 2014, 11, 108-109.	0.2	0
51	Editorial 44. Foundations of Chemistry, 2013, 15, 123-123.	0.4	0
52	Editorial 43. Foundations of Chemistry, 2013, 15, 1-2.	0.4	0
53	Editorial 45. Foundations of Chemistry, 2013, 15, 243-243.	0.4	0
54	Cracks in the Periodic Table. Scientific American, 2013, 308, 68-73.	1.0	10

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55	Some comments on the views of Niaz, Rodriguez and Brito on Mendeleev's periodic system. <i>Educacion Quimica</i> , 2013, 24, 278-284.	0.1	1
56	A Tale of Seven Elements. , 2013, , .		65
57	A critique of Weisberg's view on the periodic table and some speculations on the nature of classifications. <i>Foundations of Chemistry</i> , 2012, 14, 275-284.	0.4	27
58	Editorial 42. <i>Foundations of Chemistry</i> , 2012, 14, 189-190.	0.4	0
59	Are you really a realist?. <i>New Scientist</i> , 2012, 216, 30-31.	0.0	0
60	Top-down causation regarding the chemistry-physics interface: a sceptical view. <i>Interface Focus</i> , 2012, 2, 20-25.	1.5	24
61	The Periodic Table. , 2012, , 329-338.		4
62	What is an element? What is the periodic table? And what does quantum mechanics contribute to the question?. <i>Foundations of Chemistry</i> , 2012, 14, 69-81.	0.4	15
63	Editorial 40. <i>Foundations of Chemistry</i> , 2012, 14, 1-2.	0.4	2
64	Editorial 41. <i>Foundations of Chemistry</i> , 2012, 14, 107-107.	0.4	0
65	Elementary interest. <i>New Scientist</i> , 2011, 211, 30-31.	0.0	0
66	Editorial 37. <i>Foundations of Chemistry</i> , 2011, 13, 1-7.	0.4	13
67	Editorial 38. <i>Foundations of Chemistry</i> , 2011, 13, 85-86.	0.4	0
68	Editorial 39. <i>Foundations of Chemistry</i> , 2011, 13, 171-172.	0.4	0
69	Ensayos sobre la Tabla Periódica de los elementos químicos. <i>Revista Eureka Sobre Enseñanza Y Divulgación De Las Ciencias</i> , 2011, 8, 358-359.	0.2	0
70	5. The Russian genius - Mendeleev. , 2011, , 58-71.		0
71	3. Atomic weight, triads, and Prout. , 2011, , 30-41.		0
72	4. Steps towards the periodic table. , 2011, , 42-57.		0

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73	A revisionist history of atomism. <i>Metascience</i> , 2010, 19, 349-371.	0.1	7
74	Explaining the periodic table, and the role of chemical triads. <i>Foundations of Chemistry</i> , 2010, 12, 69-83.	0.4	14
75	Editorial 34. <i>Foundations of Chemistry</i> , 2010, 12, 1-3.	0.4	1
76	Editorial 35. <i>Foundations of Chemistry</i> , 2010, 12, 95-96.	0.4	0
77	Editorial 36. <i>Foundations of Chemistry</i> , 2010, 12, 167-169.	0.4	0
78	Recognizing rhenium. <i>Nature Chemistry</i> , 2010, 2, 598-598.	6.6	9
79	Prediction and the Periodic Table. , 2009, , 45-90.		0
80	Editorial 31. <i>Foundations of Chemistry</i> , 2009, 11, 1-2.	0.4	0
81	Editorial 32. <i>Foundations of Chemistry</i> , 2009, 11, 61-62.	0.4	0
82	Editorial 33. <i>Foundations of Chemistry</i> , 2009, 11, 131-133.	0.4	0
83	The dual sense of the term "element," attempts to derive the Madelung rule, and the optimal form of the periodic table, if any. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 959-971.	1.0	31
84	Tales of technetium. <i>Nature Chemistry</i> , 2009, 1, 332-332.	6.6	1
85	Finding francium. <i>Nature Chemistry</i> , 2009, 1, 670-670.	6.6	2
86	Chemistry goes abstract. <i>Nature Chemistry</i> , 2009, 1, 679-680.	6.6	6
87	Which Elements Belong in Group 3?. <i>Journal of Chemical Education</i> , 2009, 86, 1188.	1.1	13
88	Response to "The Role of Triads" <i>Journal of Chemical Education</i> , 2009, 86, 1185.	1.1	1
89	Mendeleev's Legacy: THE PERIODIC SYSTEM. , 2009, , 112-117.		0
90	LOWDIN'S REMARKS ON THE AUFBAU PRINCIPLE AND A PHILOSOPHER'S VIEW OF AB INITIO QUANTUM CHEMISTRY. , 2009, , 91-110.		0

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91	The Past and Future of the Periodic Table. , 2009, , 123-130.		0
92	The Role of Triads in the Evolution of the Periodic Table: Past and Present. , 2009, , 118-122.		0
93	How Good Is the Quantum Mechanical Explanation of the Periodic System?. , 2009, , 43-44.		0
94	The Electronic Configuration Model, Quantum Mechanics and Reduction. , 2009, , 18-34.		0
95	The Dual Sense of the Term "Element," Attempts to Derive the Madelung Rule, and the Optimal Form of the Periodic Table, If Any. , 2009, , 131-143.		1
96	The Periodic Table and the Electron. , 2009, , 35-42.		12
97	Chemistry, Spectroscopy, and the Question of Reduction. , 2009, , 13-17.		0
98	Editorial 28. Foundations of Chemistry, 2008, 10, 1-2.	0.4	0
99	Editorial 29. Foundations of Chemistry, 2008, 10, 77-78.	0.4	0
100	Editorial 30. Foundations of Chemistry, 2008, 10, 143-143.	0.4	0
101	The Role of Triads in the Evolution of the Periodic Table: Past and Present. Journal of Chemical Education, 2008, 85, 585.	1.1	38
102	The Past and Future of the Periodic Table. American Scientist, 2008, 96, 52.	0.1	13
103	Eric R. Scerri. The Periodic Table: Its Story and Its Significance. Oxford: Oxford University Press, 2007. xxii, 346 pages. ISBN-13: 978-0-19-530573-9. Knowledge Organization, 2008, 35, 251-255.	0.1	1
104	Constructivism, Relativism, and Chemical Education. , 2008, , 189-199.		0
105	Some Aspects of the Metaphysics of Chemistry and the Nature of the Elements. , 2008, , 168-186.		1
106	Philosophy of Chemistry, Reduction, Emergence, and Chemical Education. ACS Symposium Series, 2007, , 59-72.	0.5	0
107	Reduction and Emergence in Chemistry—Two Recent Approaches. Philosophy of Science, 2007, 74, 920-931.	0.5	14
108	Editorial 25. Foundations of Chemistry, 2007, 9, 1-1.	0.4	0

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109	Editorial 26. Foundations of Chemistry, 2007, 9, 115-117.	0.4	1
110	Editorial 27. Foundations of Chemistry, 2007, 9, 219-220.	0.4	0
111	On the continuity of reference of the elements: a response to Hendry. Studies in History and Philosophy of Science Part A, 2006, 37, 308-321.	0.6	10
112	Commentary on Allen & King's Response to the LÅrwdin Challenge. Foundations of Chemistry, 2006, 8, 285-292.	0.4	6
113	Editorial 22. Foundations of Chemistry, 2006, 8, 1-2.	0.4	0
114	Editorial 23. Foundations of Chemistry, 2006, 8, 93-95.	0.4	1
115	Editorial 24. Foundations of Chemistry, 2006, 8, 221-223.	0.4	0
116	Normative and Descriptive Philosophy of Science and the Role of Chemistry. , 2006, , 119-128.		6
117	Editorial 19 Special Issue on Philosophical Problems of Chemical Kinds. Foundations of Chemistry, 2005, 7, 1-4.	0.4	0
118	Editorial 20. Foundations of Chemistry, 2005, 7, 119-123.	0.4	1
119	Editorial 21. Foundations of Chemistry, 2005, 7, 199-202.	0.4	3
120	Response to Barnes's critique of Scerri and Worrall. Studies in History and Philosophy of Science Part A, 2005, 36, 813-816.	0.6	9
121	Just how ab initio is ab initio quantum chemistry?. Foundations of Chemistry, 2004, 6, 93-116.	0.4	35
122	Editorial 16. Foundations of Chemistry, 2004, 6, 1-2.	0.4	0
123	Editorial 17. Foundations of Chemistry, 2004, 6, 135-136.	0.4	0
124	Editorial 18. Foundations of Chemistry, 2004, 6, 199-201.	0.4	0
125	Philosophical Confusion in Chemical Education Research: Constructivism and Chemical Education (the author replies). Journal of Chemical Education, 2004, 81, 194.	1.1	2
126	Philosophical Confusion in Chemical Education Research: Does Any of This Matter? (the author) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.1	0

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127	Principles and Parameters in Physics and Chemistry. <i>Philosophy of Science</i> , 2004, 71, 1082-1094.	0.5	2
128	Editorial 14. <i>Foundations of Chemistry</i> , 2003, 5, 107-111.	0.4	1
129	Editorial 15. <i>Foundations of Chemistry</i> , 2003, 5, 185-188.	0.4	0
130	Editorial 13. <i>Foundations of Chemistry</i> , 2003, 5, 1-6.	0.4	3
131	Constructivism, Relativism, and Chemical Education. <i>Annals of the New York Academy of Sciences</i> , 2003, 988, 359-369.	1.8	7
132	Philosophical Confusion in Chemical Education Research. <i>Journal of Chemical Education</i> , 2003, 80, 468.	1.1	55
133	HAFNIUM. <i>Chemical & Engineering News</i> , 2003, 81, 138.	0.2	0
134	Response to Vollmer's Review of <i>Minds and Molecules</i> . <i>Philosophy of Science</i> , 2003, 70, 391-398.	0.5	5
135	Lowdin's Remarks on the Aufbau Principle and a Philosopher's View of <i>Ab Initio</i> Quantum Chemistry. , 2003, , 1349-1368.		3
136	Have Orbitals Really Been Observed?. <i>Journal of Chemical Education</i> , 2002, 79, 310.	1.1	9
137	Editorial 10. <i>Foundations of Chemistry</i> , 2002, 4, 1-4.	0.4	0
138	Editorial 11. <i>Foundations of Chemistry</i> , 2002, 4, 93-96.	0.4	1
139	Editorial 12. <i>Foundations of Chemistry</i> , 2002, 4, 179-182.	0.4	0
140	The Nature of Chemical Knowledge and Chemical Education. , 2002, , 7-27.		12
141	Prediction and the periodic table. <i>Studies in History and Philosophy of Science Part A</i> , 2001, 32, 407-452.	0.6	110
142	THE NEW PHILOSOPHY OF CHEMISTRY AND ITS RELEVANCE TO CHEMICAL EDUCATION. <i>Chemistry Education Research and Practice</i> , 2001, 2, 165-170.	1.4	17
143	The Recently Claimed Observation of Atomic Orbitals and Some Related Philosophical Issues. <i>Philosophy of Science</i> , 2001, 68, S76-S88.	0.5	28
144	Editorial 7. <i>Foundations of Chemistry</i> , 2001, 3, 1-5.	0.4	0

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145	Editorial 8 " Special Issue on the Periodic System of the Elements. Foundations of Chemistry, 2001, 3, 97-104.	0.4	1
146	Bibliography of Secondary Sources on the Periodic System of the Chemical Elements. Foundations of Chemistry, 2001, 3, 183-195.	0.4	4
147	Editorial 9. Foundations of Chemistry, 2001, 3, 197-199.	0.4	0
148	The Periodic Table: The Ultimate Paper Tool in Chemistry. , 2001, , 163-177.		5
149	Title is missing!. Science and Education, 2000, 9, 405-425.	1.7	35
150	Editorial 5. Foundations of Chemistry, 2000, 2, 95-98.	0.4	0
151	Editorial 4. Foundations of Chemistry, 2000, 2, 1-4.	0.4	3
152	Have Orbitals Really Been Observed?. Journal of Chemical Education, 2000, 77, 1492.	1.1	90
153	Philosophy of Chemistry" A New Interdisciplinary Field?. Journal of Chemical Education, 2000, 77, 522.	1.1	38
154	A Critique of Atkins' Periodic Kindom and Some Writings on Electronic Structure. Foundations of Chemistry, 1999, 1, 295-303.	0.4	2
155	Editorial 2. Foundations of Chemistry, 1999, 1, 107-109.	0.4	1
156	Editorial 3. Foundations of Chemistry, 1999, 1, 221-223.	0.4	0
157	Editorial 1. Foundations of Chemistry, 1999, 1, 1-5.	0.4	1
158	Response to Needham. International Studies in the Philosophy of Science, 1999, 13, 185-192.	0.2	7
159	The Quantum Mechanical Explanation of the Periodic System (author's reply). Journal of Chemical Education, 1999, 76, 1189.	1.1	6
160	In Defense of Quantum Numbers. Journal of Chemical Education, 1999, 76, 608.	1.1	3
161	The Evolution of the Periodic System. Scientific American, 1998, 279, 78-83.	1.0	44
162	How Good Is the Quantum Mechanical Explanation of the Periodic System?. Journal of Chemical Education, 1998, 75, 1384.	1.1	29

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163	Popper's naturalized approach to the reduction of chemistry. <i>International Studies in the Philosophy of Science</i> , 1998, 12, 33-44.	0.2	24
164	Ordinal Explanation of the Periodic System of Chemical Elements. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 1998, 06, 387-399.	0.9	10
165	Interdisciplinary research at the Beckman institutes. <i>Interdisciplinary Science Reviews</i> , 1997, 22, 131-137.	1.0	0
166	Demystification at What Cost? (the authors reply). <i>Journal of Chemical Education</i> , 1997, 74, 480.	1.1	1
167	Has the Periodic Table Been Successfully Axiomatized?. <i>Erkenntnis</i> , 1997, 47, 229-243.	0.6	38
168	THE CASE FOR THE PHILOSOPHY OF CHEMISTRY. <i>Synthese</i> , 1997, 111, 213-232.	0.6	86
169	Why the 4s Orbital Is Occupied before the 3d. <i>Journal of Chemical Education</i> , 1996, 73, 498.	1.1	34
170	The exclusion principle, chemistry and hidden variables. <i>Synthese</i> , 1995, 102, 165-169.	0.6	8
171	Has Chemistry Been at Least Approximately Reduced to Quantum Mechanics?. <i>PSA Proceedings of the Biennial Meeting of the Philosophy of Science Association</i> , 1994, 1994, 160-170.	0.1	36
172	Prediction of the nature of hafnium from chemistry, Bohr's theory and quantum theory. <i>Annals of Science</i> , 1994, 51, 137-150.	0.2	35
173	Further Aufbau Nonsense. <i>Journal of Chemical Education</i> , 1994, 71, 270.	1.1	0
174	Configurational energy and bond polarity. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5786-5786.	2.9	2
175	Correspondence and Reduction in Chemistry. <i>Boston Studies in the Philosophy and History of Science</i> , 1993, , 45-64.	0.4	10
176	Chemistry, spectroscopy, and the question of reduction. <i>Journal of Chemical Education</i> , 1991, 68, 122.	1.1	37
177	Aufbau mnemonics. <i>Journal of Chemical Education</i> , 1991, 68, 445.	1.1	0
178	The electronic periodic chart of the elements. <i>Journal of Chemical Education</i> , 1991, 68, 712.	1.1	2
179	The Electronic Configuration Model, Quantum Mechanics and Reduction. <i>British Journal for the Philosophy of Science</i> , 1991, 42, 309-325.	1.4	51
180	Reductionist physics. <i>Physics Education</i> , 1990, 25, 138-139.	0.3	0

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181	Eastern mysticism and the alleged parallels with physics. American Journal of Physics, 1989, 57, 687-692.	0.3	11
182	Transition metal configurations and limitations of the orbital approximation. Journal of Chemical Education, 1989, 66, 481.	1.1	20
183	Minor Contributors Count as Much as Heroic Discoverers. ChemistryViews, 0, , .	0.0	0
184	In praise of triads. Foundations of Chemistry, 0, , .	0.4	1