Reproducibility: A tragedy of errors

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Citation Report

#	Article	IF	CITATIONS
2	Environmental toxicology without chemistry and publications without discourse: Linked impediments to better science. Environmental Toxicology and Chemistry, 2016, 35, 1335-1336.	2.2	1
3	Cable yarding productivity models: a systematic review over the period 2000–2011. International Journal of Forest Engineering, 0, , 1-16.	0.4	16
4	Peer review: from recognition to improved practices. FEMS Microbiology Letters, 2016, 363, fnw115.	0.7	17
5	Can horses read emotional cues from human faces? Re-analysis of Smith et al. (2016). Biology Letters, 2016, 12, 20160201.	1.0	8
6	Prevention of selective outcome reporting: let us start from the beginning. European Journal of Clinical Pharmacology, 2016, 72, 1283-1288.	0.8	22
7	Traditional peer review and post-publication peer review. Perfusion (United Kingdom), 2016, 31, 443-444.	0.5	3
8	Towards a more reproducible ecology. Ecography, 2016, 39, 349-353.	2.1	26
9	The reproducibility issue and preclinical academic drug discovery: educational and institutional initiatives fostering translation success. Expert Opinion on Drug Discovery, 2016, 11, 835-842.	2.5	3
10	Reproducibility and replicability of science and thoracic surgery. Journal of Thoracic and Cardiovascular Surgery, 2016, 152, 1489-1491.	0.4	5
11	Statistics in a Horticultural Journal: Problems and Solutions. Journal of the American Society for Horticultural Science, 2016, 141, 400-406.	0.5	7
12	Cochrane reviews expose bias too. Nature, 2016, 530, 419-419.	13.7	0
13	Class uncorrected errors as misconduct. Nature, 2016, 531, 173-173.	13.7	11
14	Editorial Management: Clinical Research Papers and Science Research Papers. Journal of Oral Implantology, 2017, 43, 1-2.	0.4	0
15	Nextflow enables reproducible computational workflows. Nature Biotechnology, 2017, 35, 316-319.	9.4	1,867
16	Correcting the Scholarly Record in the Aftermath of Plagiarism: A Snapshot of Currentâ€Đay Publishing Practices in Philosophy. Metaphilosophy, 2017, 48, 258-283.	0.2	6
17	Fortifying the Corrective Nature of Post-publication Peer Review: Identifying Weaknesses, Use of Journal Clubs, and Rewarding Conscientious Behavior. Science and Engineering Ethics, 2017, 23, 1213-1226.	1.7	26
18	The development of scientific evidence for health policies for obesity: why and how?. International Journal of Obesity, 2017, 41, 840-848.	1.6	15
19	Nanomedicine literature: the vicious cycle of reproducing the irreproducible. International Journal of Pharmacokinetics, 2017, 2, 15-19.	0.5	5

#	Article	IF	CITATIONS
20	Errors and Integrity in Seeking and Reporting Apparent Research Misconduct. Anesthesiology, 2017, 127, 733-737.	1.3	14
21	Stated conclusion about industry funding is opposite to what the paper's data show: letter regarding â€~Selective outcome reporting in obesity clinical trials: a crossâ€sectional review'. Clinical Obesity, 2017, 7, 402-402.	1.1	1
22	How to Engage in Pseudoscience With Real Data: A Criticism of John Hattie's Arguments in Visible Learning From the Perspective of a Statistician. McGill Journal of Education, 0, 52, 237-246.	0.0	25
23	Embedding data provenance into the Learning Health System to facilitate reproducible research. Learning Health Systems, 2017, 1, e10019.	1.1	23
24	Premature deaths attributed to ambient air pollutants: let us interpret the Robins–Greenland theorem correctly. International Journal of Public Health, 2017, 62, 337-338.	1.0	6
25	Irreproducibility of published bioscience research: Diagnosis, pathogenesis and therapy. Molecular Metabolism, 2017, 6, 2-9.	3.0	36
28	Quantitative and Qualitative Analysis of Editor Behavior through Potentially Coercive Citations. Publications, 2017, 5, 15.	1.9	15
29	Systematic integration of biomedical knowledge prioritizes drugs for repurposing. ELife, 2017, 6, .	2.8	333
30	Undefined cellulase formulations hinder scientific reproducibility. Biotechnology for Biofuels, 2017, 10, 283.	6.2	7
31	Statistical Biases in Science Communication. , 2017, , .		1
32	Inaction over retractions of identified fraudulent publications: ongoing weakness in the system of scientific self-correction. Accountability in Research, 2018, 25, 239-253.	1.6	8
33	Media and Its Influence on Obesity. Current Obesity Reports, 2018, 7, 186-192.	3.5	36
34	Seeking and reporting apparent research misconduct: errors and integrity – a reply. Anaesthesia, 2018, 73, 126-128.	1.8	3
35	Seeking and reporting apparent research misconduct: errors and integrity. Anaesthesia, 2018, 73, 125-126.	1.8	12
36	Regression to the mean, apparent data errors and biologically extraordinary results: letter regarding †changes in telomere length 3–5 years after gastric bypass surgery'. International Journal of Obesity, 2018, 42, 949-950.	1.6	5
37	Knowledge dissemination in clinical trials: Exploring influences of institutional support and type of innovation on selective reporting. Research Policy, 2018, 47, 1215-1228.	3.3	11
38	Above a swamp: A theory of high-quality scientific production. Research Policy, 2018, 47, 827-839.	3.3	12
39	Issues with data and analyses: Errors, underlying themes, and potential solutions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2563-2570	3.3	107

CITATION REPORT

#	Article	lF	CITATIONS
40	Should Authors be Requested to Suggest Peer Reviewers?. Science and Engineering Ethics, 2018, 24, 275-285.	1.7	16
41	Analysis of retracted articles in the surgical literature. American Journal of Surgery, 2018, 216, 851-855.	0.9	41
42	Scientific Visualization and Reproducibility for "Open" Environmental Science. , 2018, , .		0
43	Scientific rigor and credibility in the nutrition research landscape. American Journal of Clinical Nutrition, 2018, 107, 484-494.	2.2	25
44	Letter to the Editor And response Letter to the Editor and Author Response of Assessment of a Health Promotion Model on Obese Turkish Children. The Journal of Nursing Research, 25(6), 436–446. The Journal of Nursing Research: JNR, 2018, 26, 373-374.	0.7	2
45	How to design preclinical studies in nanomedicine and cell therapy to maximize the prospects of clinical translation. Nature Biomedical Engineering, 2018, 2, 797-809.	11.6	99
46	A Test Case for Published Corrections: The Discipline of Philosophy. Research Ethics Forum, 2018, , 91-115.	0.1	0
47	Rethinking Reproducibility as a Criterion for Research Quality. Research in the History of Economic Thought and Methodology, 2018, , 129-146.	0.1	53
48	Exposure of laboratory animals to small air ions: a systematic review of biological and behavioral studies. BioMedical Engineering OnLine, 2018, 17, 72.	1.3	14
49	Fallibility in Science: Responding to Errors in the Work of Oneself and Others. Advances in Methods and Practices in Psychological Science, 2018, 1, 432-438.	5.4	18
50	Addressing Reproducibility: Peer Review, Impact Factors, Checklists, Guidelines, and Reproducibility Initiatives. , 2018, , 197-306.		4
51	Perceived Statistical Knowledge Level and Self-Reported Statistical Practice Among Academic Psychologists. Frontiers in Psychology, 2018, 9, 996.	1.1	4
52	Current Status of Single Particle Imaging with X-ray Lasers. Applied Sciences (Switzerland), 2018, 8, 132.	1.3	27
53	The stated conclusions are contradicted by the data, based on inappropriate statistics, and should be corrected: comment on â€~intervention for childhood obesity based on parents only or parents and child compared with followâ€up alone'. Pediatric Obesity, 2018, 13, 656-657.	1.4	4
54	Incorrect analyses were used in "Different enteral nutrition formulas have no effect on glucose homeostasis but on diet-induced thermogenesis in critically ill medical patients: a randomized controlled trial―and corrected analyses are requested. European Journal of Clinical Nutrition, 2019, 73, 152-153.	1.3	2
55	Childhood obesity intervention studies: A narrative review and guide for investigators, authors, editors, reviewers, journalists, and readers to guard against exaggerated effectiveness claims. Obesity Reviews, 2019, 20, 1523-1541.	3.1	25
56	Qresp, a tool for curating, discovering and exploring reproducible scientific papers. Scientific Data, 2019, 6, 190002.	2.4	24
57	Journals' instructions to authors: A cross-sectional study across scientific disciplines. PLoS ONE, 2019, 14, e0222157.	1.1	24

CITATION REPORT

	CHANON	I KEI OKT	
#	Article	IF	CITATIONS
58	The changing landscape of scientific publishing. Journal of Histotechnology, 2019, 42, 95-97.	0.2	2
59	Differences in Nominal Significance (DINS) Error leads to invalid conclusions: Letter regarding, "Diet enriched with fresh coconut decreases blood glucose levels and body weight in normal adultsâ€ Journal of Complementary and Integrative Medicine, 2019, 16, .	0.4	4
60	On the use of blockchain-based mechanisms to tackle academic misconduct. Research Policy, 2019, 48, 103805.	3.3	25
61	When poorly conducted systematic reviews and meta-analyses can mislead: a critical appraisal and update of systematic reviews and meta-analyses examining the effects of probiotics in the treatment of functional constipation in children. American Journal of Clinical Nutrition, 2019, 110, 177-195.	2.2	25
62	Conditioning on "study―is essential for valid inference when combining individual data from multiple randomized controlled trials: a comment on Reesor et al's Schoolâ€based weight management program curbs summer weight gain among lowâ€income Hispanic middle school students <i>. J Sch Health</i> . 2019;89(1):59â€67. Journal of School Health, 2019, 89, 515-518.	0.8	2
63	Open Access Mega-Journals: Quality, Economics and Post-publication Peer Review Infrastructure. Publishing Research Quarterly, 2019, 35, 418-435.	0.4	10
64	Reproducibility of biomarker identifications from mass spectrometry proteomic data in cancer studies. Statistical Applications in Genetics and Molecular Biology, 2019, 18, .	0.2	3
65	The Future of van der Waals Force-Enabled Technology Transfer into the Aerospace Marketplace. , 2019, , 729-794.		3
66	Semi-automated fact-checking of nucleotide sequence reagents in biomedical research publications: The Seek & Blastn tool. PLoS ONE, 2019, 14, e0213266.	1.1	46
67	The reproducibility crisis in the age of digital medicine. Npj Digital Medicine, 2019, 2, 2.	5.7	91
68	On the value of preprints: An early career researcher perspective. PLoS Biology, 2019, 17, e3000151.	2.6	116
70	COMPare: a prospective cohort study correcting and monitoring 58 misreported trials in real time. Trials, 2019, 20, 118.	0.7	122
71	Scientific Integrity Principles and Best Practices: Recommendations from a Scientific Integrity Consortium. Science and Engineering Ethics, 2019, 25, 327-355.	1.7	70
72	The Possibility of Systematic Research Fraud Targeting Under-Studied Human Genes: Causes, Consequences, and Potential Solutions. Biomarker Insights, 2019, 14, 117727191982916.	1.0	25
73	Drug discovery today: no molecules required. BMJ Evidence-Based Medicine, 2019, 24, 48-52.	1.7	7
74	Rhetorical Citizenship and the Science of Science Communication. Argumentation, 2020, 34, 371-387.	0.7	4
75	Toward fulfilling the aspirational goal of science as self orrecting: A call for editorial courage and diligence for error correction. European Journal of Clinical Investigation, 2020, 50, e13190.	1.7	17
76	Correcting the scientific record – A broken system?. Accountability in Research, 2021, 28, 265-279.	1.6	10

#	Article	IF	CITATIONS
77	Contrary to the Conclusions Stated in the Paper, Only Dry Fat-Free Mass Was Different between Groups upon Reanalysis. Comment on: "Intermittent Energy Restriction Attenuates the Loss of Fat-Free Mass in Resistance Trained Individuals. A Randomized Controlled Trial― Journal of Functional Morphology and Kinesiology, 2020, 5, 85.	1.1	4
78	On the socio-technical potential for onshore wind in Europe: A response to Enevoldsen et al. (2019), Energy Policy, 132, 1092-1100. Energy Policy, 2020, 145, 111693.	4.2	11
79	Preprints in Medicine: Useful or Harmful?. Frontiers in Medicine, 2020, 7, 579100.	1.2	14
80	Ten simple rules on how to write a standard operating procedure. PLoS Computational Biology, 2020, 16, e1008095.	1.5	13
81	AiiDA 1.0, a scalable computational infrastructure for automated reproducible workflows and data provenance. Scientific Data, 2020, 7, 300.	2.4	142
82	Comparisons of Within-Group Instead of Between-Group Affect the Conclusions. Comment on: "Changes in Weight and Substrate Oxidation in Overweight Adults Following Isomaltulose Intake during a 12-Week Weight Loss Intervention: A Randomized, Double-Blind, Controlled Trial― Nutrients 2019, 11(10), 2367, Nutrients, 2020, 12, 2335.	1.7	2
83	How To Be a Better Scientist. By Andrew C. Johnson and John P. Sumpter. Taylor and Francis, 2018. Pp. 248. Price GBP 15.19 ISBN 9781138731295 (paperback), GBP 76.00 ISBN 9781138731219 (hardback), GBP 12.3 ISBN 9781315189079 (ebook) Journal of Applied Crystallography, 2020, 53, 863-864.	34.9	0
84	Commentary: Studying a Possible Placebo Effect of an Imaginary Low-Calorie Diet. Frontiers in Psychiatry, 2020, 11, 329.	1.3	3
85	Apparent size and morphology of bacterial microcompartments varies with technique. PLoS ONE, 2020, 15, e0226395.	1.1	27
86	Within-group comparisons led to unsubstantiated conclusions in "Low-phytate wholegrain bread instead of high-phytate wholegrain bread in a total diet context did not improve iron status of healthy Swedish females: a 12-week, randomized, parallel-design intervention Study― European Journal of Nutrition. 2020. 59. 2813-2814.	1.8	2
87	Best (but oft-forgotten) practices: identifying and accounting for regression to the mean in nutrition and obesity research. American Journal of Clinical Nutrition, 2020, 111, 256-265.	2.2	17
88	Murine genetic models of obesity: type I error rates and the power of commonly used analyses as assessed by plasmode-based simulation. International Journal of Obesity, 2020, 44, 1440-1449.	1.6	5
89	Appetiteâ€Related Responses to Overfeeding and Longitudinal Weight Change in Obesityâ€Prone and Obesityâ€Resistant Adults. Obesity, 2020, 28, 259-267.	1.5	8
90	From insight network to open policy practice: practical experiences. Health Research Policy and Systems, 2020, 18, 36.	1.1	1
91	Workflows in AiiDA: Engineering a high-throughput, event-based engine for robust and modular computational workflows. Computational Materials Science, 2021, 187, 110086.	1.4	63
92	Versioning Data Is About More than Revisions: A Conceptual Framework and Proposed Principles. Data Science Journal, 2021, 20, .	0.6	6
93	Persistent confusion in nutrition and obesity research about the validity of classic nonparametric tests in the presence of heteroscedasticity: evidence of the problem and valid alternatives. American Journal of Clinical Nutrition, 2021, 113, 517-524.	2.2	3
94	Behind the Façade of Self-Correcting Science. , 2021, , 147-152.		0

#	Article	IF	CITATIONS
95	The thin ret(raction) line: biomedical journal responses to incorrect non-targeting nucleotide sequence reagents in human gene knockdown publications. Scientometrics, 2021, 126, 3513-3534.	1.6	11
96	Quotation Accuracy Matters: An Examination of How an Influential Meta-Analysis on Active Learning Has Been Cited. Review of Educational Research, 2021, 91, 272-308.	4.3	7
97	Universal rules of life: metabolic rates, biological times and the equal fitness paradigm. Ecology Letters, 2021, 24, 1262-1281.	3.0	38
98	Invited Commentary: Code Review—An Important Step Toward Reproducible Research. American Journal of Epidemiology, 2021, 190, 2178-2179.	1.6	2
99	Transparency About Values and Assertions of Fact in Natural Resource Management. Frontiers in Conservation Science, 2021, 2, .	0.9	7
100	Evidence of misuse of nonparametric tests in the presence of heteroscedasticity within obesity research. F1000Research, 2021, 10, 391.	0.8	0
101	University of Alabama at Birmingham Nathan Shock Center: comparative energetics of aging. GeroScience, 2021, 43, 2149-2160.	2.1	2
102	Comment on "Effect of bariatric surgery on circulating FGFâ€19: A systematic review and metaâ€analysisâ€. Obesity Reviews, 2021, 22, e13299.	3.1	0
103	Errors in the implementation, analysis, and reporting of randomization within obesity and nutrition research: a guide to their avoidance. International Journal of Obesity, 2021, 45, 2335-2346.	1.6	18
104	The daily Self-Weighing for Obesity Management in Primary Care Study: Rationale, design and methodology. Contemporary Clinical Trials, 2021, 107, 106463.	0.8	3
105	Benefits and harms of implementing [18F]FDG-PET/CT for diagnosing recurrent breast cancer: a prospective clinical study. EJNMMI Research, 2021, 11, 93.	1.1	14
106	Comment on †Effects of pistachios on anthropometric indices, inflammatory markers, endothelial function and blood pressure in adults: a systematic review and meta-analysis of randomised controlled trials'. British Journal of Nutrition, 2022, 128, 780-781.	1.2	0
107	The impact of using biased performance metrics on software defect prediction research. Information and Software Technology, 2021, 139, 106664.	3.0	29
108	Scholarly Publishing and Scientific Reproducibility. Laboratory Animal Science and Medicine, 2021, , 185-211.	0.1	1
111	Correcting duplicate publications: follow up study of MEDLINE tagged duplications. Biochemia Medica, 2019, 29, 18-27.	1.2	8
112	Reproducibility2020: Progress and priorities. F1000Research, 2017, 6, 604.	0.8	81
113	Whose sample is it anyway? Widespread misannotation of samples in transcriptomics studies. F1000Research, 2016, 5, 2103.	0.8	33
114	From data sharing to data publishing. MNI Open Research, 2019, 2, 1.	1.0	8

	Сітатіо	CITATION REPORT	
#	Article	IF	CITATIONS
115	Authentication: A Standard Problem or a Problem of Standards?. PLoS Biology, 2016, 14, e1002477.	2.6	27
116	Truth in Science Publishing: A Personal Perspective. PLoS Biology, 2016, 14, e1002547.	2.6	7
117	The ghosts of HeLa: How cell line misidentification contaminates the scientific literature. PLoS ONE, 2017, 12, e0186281.	1.1	117
118	Towards standardization guidelines for <i>in silico</i> approaches in personalized medicine. Journal of Integrative Bioinformatics, 2020, 17, .	1.0	9
119	Proporción y distribución de erratas en publicaciones cientÃficas. Investigacion Bibliotecologica, 2019, 33, 97.	0.0	2
120	Global Data Quality Assessment and the Situated Nature of "Best―Research Practices in Biology. Data Science Journal, 2017, 16, .	0.6	16
123	Systematic review and meta-analyses of studies analysing instructions to authors from 1987 to 2017. Nature Communications, 2021, 12, 5840.	5.8	20
124	Whose sample is it anyway? Widespread misannotation of samples in transcriptomics studies. F1000Research, 2016, 5, 2103.	0.8	22
125	Statistics in a Horticultural Journal: Problems and Solutions. HortTechnology, 2016, 26, 558-564.	0.5	0
127	Comment faire de la pseudoscience avec des données réellesÂ: une critique des arguments statistiques de John Hattie dans Visible Learning par un statisticien. McGill Journal of Education, 0, 51, 935-945.	⁵ 0.0	0
129	What's Responsible for the Retraction Boom?. , 2018, , 23-28.		0
130	From data sharing to data publishing. MNI Open Research, 0, 2, 1.	1.0	0
131	Integrity in science. , 2018, , 55-68.		0
133	Reasons and implications of retracted articles in Brazil. Transinformacao, 0, 33, .	0.2	6
134	Temos Sido Transparentes o Suficiente? Desafios à Replicabilidade e à Credibilidade da Pesquisa na Ãrea de Negócios. RAC: Revista De Administração Contemporânea, 2019, 23, .	0.1	2
136	Open practices in our science and our courtrooms. Trends in Genetics, 2022, 38, 113-115.	2.9	1
138	Improving open and rigorous science: ten key future research opportunities related to rigor, reproducibility, and transparency in scientific research. F1000Research, 2020, 9, 1235.	0.8	2
139	The Conclusions Are Unsupported by the Data, Are Based on Invalid Analyses, Are Incorrect, and Should be Corrected: Letter Regarding "Sleep Quality and Body Composition Variations in Obese Male Adults after 14 weeks of Yoga Intervention: A Randomized Controlled Trial". International Journal of Yoga. 2018. 11. 83-84.	0.4	2

CITATION REPORT

#	Article	IF	CITATIONS
140	Misinformation: an empirical study with scientists and communicators during the COVID-19 pandemic. BMJ Open Science, 2021, 5, e100188.	0.8	9
141	Findings from meta-analysis of soy supplementation and inflammatory biomarkers should be interpreted with caution. Cytokine, 2022, 151, 155505.	1.4	0
142	The long life of unicorns. Precision Nanomedicine, 2020, 3, .	0.4	2
143	Reproducibility in Computing Research: An Empirical Study. IEEE Access, 2022, 10, 29207-29223.	2.6	9
144	An observational analysis of the trope "A p-value of < 0.05 was considered statistically significant― and other cut-and-paste statistical methods. PLoS ONE, 2022, 17, e0264360.	1.1	11
145	From Model Organisms to Humans, the Opportunity for More Rigor in Methodologic and Statistical Analysis, Design, and Interpretation of Aging and Senescence Research. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, , .	1.7	4
150	A bibliometric study on the publication errors in emergency medicine journals from 2000 to 2020. American Journal of Emergency Medicine, 2022, 60, 140-144.	0.7	1
151	Characteristics of correction practice and its citation in library and information science journals. Journal of Librarianship and Information Science, 0, , 096100062211246.	1.6	0
152	Plagiarism in Philosophy Research. , 2022, , 379-388.		0
154	Protection of the human gene research literature from contract cheating organizations known as research paper mills. Nucleic Acids Research, 2022, 50, 12058-12070.	6.5	11
155	Amending the literature through version control. Biology Letters, 2023, 19, .	1.0	3
156	Are female scientists underrepresented in self-retractions for honest error?. Frontiers in Research Metrics and Analytics, 0, 8, .	0.9	1
157	Connecting simple and precise <i>P</i> â€values to complex and ambiguous realities (includes rejoinder) Tj ETQc 899-914.	0 0 0 rgB ⁻ 0.9	[/Overlock 1(7
158	Determination of sex differences requires formal test for differences: Comment on "lipoproteinâ€subclass particle numbers in children with abdominal obesity― Pediatrics International, 2023, 65, .	0.2	3
159	Inaccuracy in the Scientific Record and Open Postpublication Critique. Perspectives on Psychological Science, 0, , 174569162211413.	5.2	0
160	Exploring arXiv usage habits among Slovenian scientists. Journal of Documentation, 2023, 79, 72-94.	0.9	2
161	Sex-Inclusive Biomedicine: Are New Policies Increasing Rigor and Reproducibility?. Women's Health Issues, 2023, 33, 461-464.	0.9	5
163	The future of academic publishing. Nature Human Behaviour, 2023, 7, 1021-1026.	6.2	7

ARTICLE

IF CITATIONS