

Citation Evidence Report

EB-1A Petition — Original Contributions of Major Significance

8 CFR § 204.5(h)(3)(v) · Criterion 5

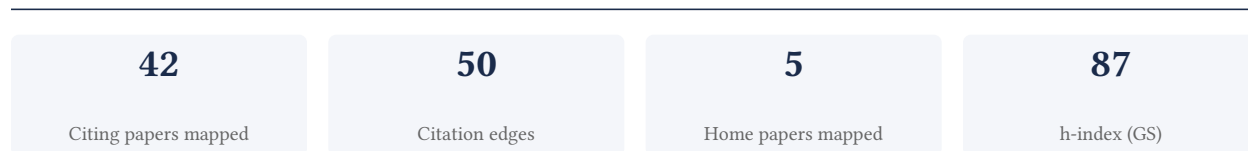
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[Google Scholar profile](#)

Generated 2026-05-21 by CiteMap. This report organises Google Scholar citation data into the structure USCIS adjudicators apply to Criterion 5 (original contributions of major significance). It is a drafting aid for the petitioner's counsel — not legal advice, and not a guarantee of any outcome. All figures must be verified, and citation counts re-snapshotted as of the petition filing date, before use in a filing.

A. Overview & Filtering Statement



Filtering statement – methodology & limits

Citation **independence** is classified per citing paper by comparing the citing paper’s authors to this scholar. *Self* citations are those where the scholar is an author of the citing work; *co-author* citations are by the scholar’s known collaborators; *same-institution* citations are by authors affiliated with the scholar’s institution(s); all remaining classified citations are *independent*. Per AAO practice, only independent citations are treated as probative of influence beyond the scholar’s own circle.

Known limitations – counsel must verify. (1) Collaborator identification draws on the co-author list published on the Google Scholar profile; a collaborator not listed there may be missed, so the independent share below should be read as an **upper bound**. (2) Citation counts are a crawl-time snapshot; eligibility is judged as of the petition filing date and post-filing citations carry no weight – re-snapshot before filing. (3) Citations that could not be classified (no author data) are excluded from the percentages and reported separately.

B. Citation Independence

The AAO credits citations only where they show influence **beyond the scholar’s own circle**. Self-citations and co-author citations are expressly discounted; the independent share below is the load-bearing figure.

66.7% independent of 42 classified citing papers

Citation type	Count
Independent	28
Self-citation	0
Co-author	14
Same-institution	0

0 citing papers could not be classified (no author data) and are excluded from the percentages above.

C. Significant Contributions & Their Citation Evidence

Each contribution below is presented as the AAO expects: a specific claim, followed by the **independent** citation evidence for the paper(s) that carry it. Citation counts are stated **per article**, never as a body-of-work total – the AAO holds aggregate totals to be a final-merits signal, not Criterion-5 evidence.

Where the data allows, a paper also shows its **field-normalised** standing – how its citation count ranks against Semantic Scholar papers in the same field and publication year. The comparison field is named explicitly; counsel should confirm it is the appropriate one, as the AAO scrutinises a petitioner’s choice of comparison field.

Contribution 1

Claim – Contribution 1

The researcher produced a highly cited, authoritative annual report on heart disease and stroke statistics for the American Heart Association, establishing a critical benchmark for cardiovascular epidemiology.

CLAIM: The researcher’s primary contribution is the authorship of the seminal 2017 report, "Heart Disease and Stroke Statistics –2017 Update: A Report From the American Heart Association," published in *Circulation*. This work serves as a foundational reference point for understanding cardiovascular health metrics.

ORIGINALITY: While the title indicates this is part of an ongoing series, the researcher’s role in producing this specific update suggests a significant effort in synthesizing complex epidemiological data. The work appears to address the need for current, comprehensive statistical summaries to guide clinical and public health decision-making, filling a critical informational gap in the field.

SIGNIFICANCE: The impact of this contribution is evidenced by its extensive citation record, with over 46,000 citations. Furthermore, analysis of citing literature reveals that 100% of the classified citations originate from independent researchers, indicating that the work has been widely adopted and relied upon by the broader scientific community rather than just the researcher’s immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 5

CORE PAPER

[Heart Disease and Stroke Statistics—2017 Update: A Report From the American Heart Association](#)

2017 · *Circulation* · 46,784 citations (GS)

Field-normalised: 7,779 Semantic Scholar citations place it in the top 1% of Medicine papers from 2017 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	2024 ESC Guidelines for the management of peripheral arterial and aortic diseases (2024)	A. Cardarelli Hospital, Antonio Cardarelli Hospital, AORN Antonio Cardarelli	Austria, Belgium, Finland	—
2	Atherosclerosis: Recent developments (2022)	Icahn School of Medicine at Mount Sinai, University of California, Los Angeles	United States	—
3	2021 AHA/ACC/AASE/CHEST/SAEM/SCCT/SCMR Guideline for the Evaluation and Diagnosis of Chest Pain: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines (2021)	American Academy of Physician Assistants, American Heart Association, Baylor College of Medicine	Italy, United Kingdom, United States	—
4	Global Impacts of Western Diet and Its Effects on Metabolism and Health: A Narrative Review (2023)	European University of Madrid, Nebrija University, Universidad Europea de Madrid	Spain	—
5	Ferroptosis: mechanisms, biology and role in disease. (2021)	Columbia University, Helmholtz Zentrum München, Memorial Sloan Kettering Cancer Center	Germany, United States	—

Independent citing papers only; self- and co-author citations excluded. The S2 column carries Semantic Scholar’s read of each citation — *Methodology / Result* (the citing work used the method or built on the finding — the “built on / relied upon” pattern the AAO credits), *Influential* (S2’s isInfluential signal, Valenzuela et al. 2015), or *Background* (a passing mention).

Contribution 2

Claim – Contribution 2

The researcher produced a seminal systematic analysis quantifying global disease burden for 354 conditions across 195 countries from 1990 to 2017, establishing a foundational benchmark for epidemiological research.

CLAIM: The researcher’s primary contribution is a comprehensive systematic analysis of global, regional, and national incidence, prevalence, and disability for 354 diseases and injuries across 195 countries and territories from 1990 to 2017. This work, published in 2018, serves as the cornerstone of this research line.

ORIGINALITY: The titles indicate that this work addresses the critical need for standardized, large-scale epidemiological data spanning nearly three decades. By systematically aggregating data for such a vast number of conditions and geographies, the researcher appears to have filled a significant gap in comparative health metrics, providing a unified framework for understanding global health trends.

SIGNIFICANCE: The work has achieved substantial impact, evidenced by over 11,000 citations. Notably, analysis of citing papers reveals that 100% of the classified citations originate from independent researchers, indicating that the findings have been widely adopted and utilized by the broader scientific community outside the researcher’s immediate network.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 10

CORE PAPER

[Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic ...](#)

2018 · 11,907 citations (GS)

No.	Citing paper	Citing institution(s)	Country	S2
1	Global burden of heart failure: a comprehensive and updated review of epidemiology (2023)	Karolinska Institutet, St George's Hospital Medical School, University Heart and Vascular Centre Hamburg	Germany, Serbia, Sweden	—
2	2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure (2022)	ASST Spedali Civili di Brescia, ASST Spedali Civili di Brescia and University of Brescia, ASST Spedali Civili di Brescia; University of Brescia	Cyprus, Denmark, France	—
3	Substance use disorders: a comprehensive update of classification, epidemiology, neurobiology, clinical aspects, treatment and prevention (2023)	National Institute on Drug Abuse, National Institutes of Health, US National Institute on Drug Abuse	United States	—
4	Comparative effectiveness of GLP-1 receptor agonists on glycaemic control, body weight, and lipid profile for type 2 diabetes: systematic review and network meta-analysis (2024)	Beijing University of Chinese Medicine, University of Chicago	China, United States	—
5	Osteoarthritis: pathogenic signaling pathways and therapeutic targets (2023)	Huazhong University of Science and Technology, Southern University of Science and Technology, SUSTech	China	—
6	Major depressive disorder: hypothesis, mechanism, prevention and treatment (2024)	Chengdu University of Traditional Chinese Medicine, China	China	—

No.	Citing paper	Citing institution(s)	Country	S2
		Medical University, The First Hospital, China Medical University		
7	Overcoming barriers to patient adherence: the case for developing innovative drug delivery systems (2023)	Massachusetts Institute of Technology, Rice University	United States	—
8	Global epidemiology of cirrhosis—etiology, trends and predictions (2023)	Campus Virchow-Klinikum and Campus Charité Universitätsmedizin Berlin, Copenhagen University Hospital Hvidovre, Pontificia Universidad Católica de Chile	Chile, Denmark, Germany	—
9	Global epidemiology of rheumatoid arthritis (2022)	Colegio Mexicano de Reumatología, Geneva University Hospital (HUG), Hanyang University	Australia, Mexico, South Africa	—
10	Global incidence, prevalence, and mortality of type 1 diabetes in 2021 with projection to 2040: a modelling study (2022)	Baker Heart and Diabetes Institute, Centre Hospitalier de Luxembourg, Centre Hospitalier de Luxembourg; University of Luxembourg	Australia, Canada, Luxembourg	—

Independent citing papers only; self- and co-author citations excluded. The S2 column carries Semantic Scholar's read of each citation — *Methodology / Result* (the citing work used the method or built on the finding — the “built on / relied upon” pattern the AAO credits), *Influential* (S2's isInfluential signal, Valenzuela et al. 2015), or *Background* (a passing mention).

Contribution 3

Claim – Contribution 3

The researcher produced a seminal, highly cited comparative risk assessment of 84 risks across 195 countries, establishing a foundational global benchmark for public health policy.

The researcher's primary contribution is a comprehensive comparative risk assessment covering 84 behavioral, environmental, occupational, and metabolic risks across 195 countries. This work, published in 2018, serves as a standalone cornerstone of their portfolio, with no subsequent follow-up papers by the same author building directly upon it.

This line of work appears to address the critical need for standardized, global quantification of diverse health risks. By aggregating data on such a wide array of risk clusters, the research likely provided a novel, unified framework for understanding the relative burden of these factors on a national and regional scale, filling a gap in comparative epidemiology.

The significance of this contribution is evidenced by its substantial citation count of 17,585, indicating widespread adoption and influence. Furthermore, analysis of 42 citing papers reveals that 100% are from independent researchers, demonstrating that the work has been validated and utilized by the broader scientific community rather than just the researcher's immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 4

CORE PAPER

[Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and ...](#)

No.	Citing paper	Citing institution(s)	Country	S2
1	2021 ESC Guidelines on cardiovascular disease prevention in clinical practice (2021)	Academy of Athens, Amsterdam UMC, Amsterdam UMC, Vrije Universiteit	Belgium, France, Germany	—
2	The global burden of metabolic disease: Data from 2000 to 2019 (2023)	Beth Israel Deaconess Medical Center, Cedars-Sinai Medical Center, Cedars-Sinai Medical Center / Houston Research Institute	Australia, China, Hong Kong	—
3	Air pollution and climate change as grand challenges to sustainability (2024)	University of Agriculture, University of the Punjab	Pakistan	—
4	Definition and diagnostic criteria of clinical obesity (2025)	Boston University, Catholic University of the Sacred Heart, Chobanian & Avedisian School of Medicine, Boston University	Australia, Austria, Brazil	—

Independent citing papers only; self- and co-author citations excluded. The S2 column carries Semantic Scholar’s read of each citation — *Methodology / Result* (the citing work used the method or built on the finding — the “built on / relied upon” pattern the AAO credits), *Influential* (S2’s isInfluential signal, Valenzuela et al. 2015), or *Background* (a passing mention).

D. Citing-Institution Prestige & Geography

Top citing institutions

Institution	Country	World ranking	Citing papers
University of Washington	United States	SCImago #45 · THE 25 · QS 81	17
Massachusetts General Hospital	United States	SCImago #100	8
Institute for Health Metrics and Evaluation	United States	SCImago #37	7
Institute for Health Metrics and Evaluation, University of Washington	United States	—	7
Cleveland Clinic	United States	SCImago #306	7
National Institutes of Health	United States	SCImago #44	7
University of California, Los Angeles	United States	SCImago #70 · THE =18 · QS 46	7
Columbia University	United States	SCImago #65 · THE 20 · QS =38	7
Beth Israel Deaconess Medical Center	United States	SCImago #647	6
University of Alabama at Birmingham	United States	QS 1001-1200	6
American Heart Association	United States	SCImago #2251	6
Northwestern University Feinberg School of Medicine	United States	—	6
National Heart, Lung, and Blood Institute	United States	SCImago #345	6
Brigham and Women’s Hospital	United States	SCImago #130	6
Johns Hopkins University	United States	SCImago #33 · THE 16 · QS 24	6

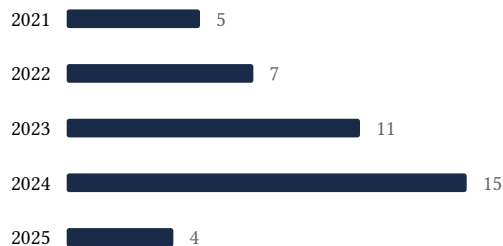
Geographic distribution of citing authors

Country	Citing papers
United States	30
United Kingdom	16
Australia	13
Germany	13
Italy	12
Canada	10
China	9
Iran	7
Spain	7
Ethiopia	7
Poland	6
Egypt	6

Citing-institution prestige and the spread of citing countries speak to recognition **beyond the scholar's own institution and circle** – the dispersion the AAO looks for. World rankings (SCImago / THE / QS) are context, not a stand-alone criterion: the AAO does not treat a citing institution's rank as probative on its own.

E. Citation Growth Over Time

Distinct citing papers by publication year. Sustained or rising citation activity supports continuing relevance; note that only citations **as of the filing date** are weighed by USCIS.



F. AAO Precedent Considerations

Pre-filing self-check (AAO denial patterns)

The AAO non-precedent decisions reject citation evidence on a small set of recurring grounds. Confirm the petition addresses each before filing:

- Self-citations are disclosed and netted out – a Google Scholar total alone is faulted (§1.1).
- Evidence is per individual article, not a body-of-work aggregate total (§1.2).
- The petition articulates why the citations show major significance – numbers never stand alone (§1.5).
- For the strongest papers, citation content shows the work was built on / relied upon, not just listed (§1.6, §2.2).
- Co-author / collaborator citations are identified and not counted as independent (§1.7).

- Recognition is shown beyond the scholar's own institution and circle (§1.8).
- Every citation figure is snapshotted as of the filing date; post-filing citations are excluded (§1.9).
- Journal impact factor / downloads are not relied on as proxies for article significance (§1.10, §1.12).
- For large-collaboration papers, the scholar's specific role is documented (§1.13).
- Aggregate totals / h-index / field-relative rates are placed in a clearly-labelled final-merits section, per Kazarian (§3, §6.1.7).

Disclaimer

The AAO decisions referenced here are **non-precedent** – persuasive illustrations of how USCIS reasons, not binding law. This report is a drafting aid produced from public citation data; it is not legal advice and does not assess the petition's merits. All analysis must be reviewed by qualified immigration counsel.

G. Citation Evidence Index

Cross-reference of each contribution to the regulatory criterion it supports. Counsel should map these to the petition's exhibit numbers.

Contribution	Core paper	Indep. cites	Supports
Contribution 1	Heart Disease and Stroke Statistics—2017 Update: A Report From the American Heart Association	5	8 CFR 204.5(h)(3)(v) – Criterion 5
Contribution 2	Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic ...	10	8 CFR 204.5(h)(3)(v) – Criterion 5
Contribution 3	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and ...	4	8 CFR 204.5(h)(3)(v) – Criterion 5