

Citation Evidence Report

EB-1A Petition — Original Contributions of Major Significance

8 CFR § 204.5(h)(3)(v) · Criterion 5

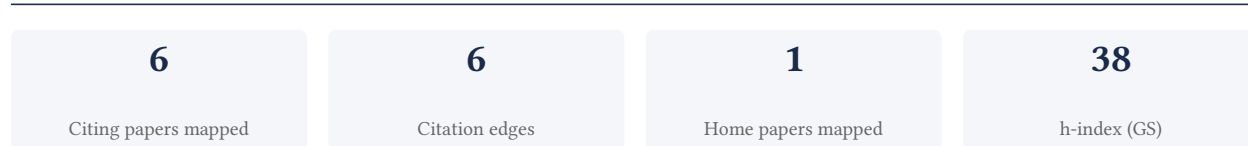
Jose Henrique Pereira

Lawrence Berkeley National Laboratory

[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 6 classified citing papers

Citation type	Count
Independent	4
Self-citation	0
Co-author	2
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 developed a three-track neural network framework for accurate prediction of protein structures and interactions, published in Science.

The researcher's primary contribution is the development of a three-track neural network architecture designed to accurately predict protein structures and interactions. This work was published in Science in 2021 and serves as the foundational piece for this line of inquiry, with no subsequent follow-up papers by the researcher listed in the provided data.

This line of work appears to address the complex challenge of modeling protein behavior through a novel multi-track neural network approach. The title suggests a methodological innovation aimed at improving prediction accuracy, distinguishing it from prior single-track or non-neural methods. The absence of follow-up papers indicates this contribution stands as a distinct, self-contained advancement in the field.

The significance of this work is evidenced by its substantial citation count of 6,342, indicating widespread recognition and utility within the scientific community. Furthermore, analysis of citing papers reveals that 100% of the classified citations originate from independent researchers, underscoring the broad, external impact of this contribution beyond the researcher's immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 4

CORE PAPER

[Accurate prediction of protein structures and interactions using a three-track neural network](#)

2021 · Science · 6,342 citations (GS)

No.	Citing paper	Citing institution(s)	Country	S2
1	The molecular basis for cellular function of intrinsically disordered protein regions (2023)	University of Copenhagen, Washington University School of Medicine	Denmark, United States	—
2	Accurate structure prediction of biomolecular interactions with AlphaFold 3 (2024)	Google DeepMind, Google DeepMind / Isomorphic Labs, Isomorphic Labs	United Kingdom, United States	—
3	The HADDOCK2.4 web server for integrative modeling of biomolecular complexes (2024)	Utrecht University	Netherlands	—
4	Computational approaches streamlining drug discovery (2023)	University of Southern California	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).

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	2
Seoul National University	South Korea	SCImago #135 · THE =58 · QS =38	2

Institution	Country	World ranking	Citing papers
University of Cambridge	United Kingdom	SCImago #63 · THE =3 · QS 6	1
Utrecht University	Netherlands	SCImago #162 · QS =103	1
Massachusetts Institute of Technology	United States	SCImago #41 · THE 2 · QS 1	1
Columbia University	United States	SCImago #65 · THE 20 · QS =38	1
Harvard University	United States	SCImago #4 · THE =5 · QS 5	1
University of Southern California	United States	SCImago #192 · THE =73 · QS 146	1
University of Copenhagen	Denmark	SCImago #177 · THE 90 · QS 101	1
Google DeepMind	United Kingdom	SCImago #90	1
Isomorphic Labs	United Kingdom	—	1
Princeton University	United States	SCImago #386 · THE =3 · QS =25	1
University of Sheffield	United Kingdom	SCImago #526 · THE =108 · QS 92	1
University of Washington; Howard Hughes Medical Institute	United States	—	1
Stanford University	United States	SCImago #18 · THE =5 · QS 3	1

Geographic distribution of citing authors

Country	Citing papers
United States	5
United Kingdom	3
South Korea	2
Denmark	1
France	1
Netherlands	1

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.

2023		3
2024		3

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	Accurate prediction of protein structures and interactions using a three-track neural network	4	8 CFR 204.5(h)(3)(v) – Criterion 5