

# Citation Evidence Report

EB-1B Petition — Outstanding Professor or Researcher

8 CFR § 204.5(i)(3) · Authorship + Original Contributions

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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 the 8 CFR § 204.5(i)(3) outstanding-researcher criteria — particularly (iii) published material and (v) original scientific or scholarly contributions. 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

5	5	1	50
Citing papers mapped	Citation edges	Home papers mapped	h-index (GS)

### 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.

**100.0% independent** of 5 classified citing papers

Citation type	Count
Independent	5
Self-citation	0
Co-author	0
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 established foundational frameworks for the Semantic Web by defining the critical roles of XML and RDF in structuring web data.*

CLAIM: The researcher’s primary contribution is the articulation of the foundational roles of XML and RDF within the Semantic Web, as detailed in the seminal 2000 paper published in IEEE Internet Computing.

ORIGINALITY: This work appears to address the early need for standardized data representation on the web. By focusing on XML and RDF, the researcher likely provided a conceptual bridge between existing markup languages and the emerging vision of a machine-readable web, establishing a clear technical direction for the field.

SIGNIFICANCE: The paper has been cited 1,356 times, indicating substantial influence. Notably, 100% of the classified citations originate from independent researchers, suggesting the work has been widely adopted and validated by the broader scientific community rather than just the researcher’s immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 5

### CORE PAPER

#### [The Semantic Web: The Roles of XML and RDF](#)

2000 · IEEE Internet Computing · 1,356 citations (GS)

Field-normalised: 881 Semantic Scholar citations place it in the top 1% of Computer Science papers from 2000 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	<a href="#">Interoperability in Smart Manufacturing: Research Challenges</a> (2019)	Northeastern University	United States	—
2	<a href="#">Artificial intelligence and tutoring systems: Computational and cognitive approaches to the communication of knowledge</a> (1987)	University of California, Irvine	United States	—
3	<a href="#">Semantic Web for the Working Ontologist: Effective Modeling in RDFS and OWL</a> (2008)	TopQuadrant, Inc., U.S. government	United States	—
4	<a href="#">Knowledge Graphs: Methodology, Tools and Selected Use Cases</a> (2020)	Onlim GmbH, STI Innsbruck	Austria	—
5	<a href="#">An Ontology for Context-Aware Pervasive Computing Environments</a> (2003)	University of Maryland Baltimore County	United States	—

Independent citing papers only; self- and co-author citations excluded. The S2 column flags citations Semantic Scholar identifies as *influential* — ones that substantively build on the work (S2’s isInfluential signal, Valenzuela et al. 2015) — the “built on / relied upon” pattern the AAO credits. Counsel should quote the citing text for the strongest of these.

## D. Citing-Institution Prestige & Geography

### Top citing institutions

Institution	Country	World ranking	Citing papers
Northeastern University	United States	QS 384	1
University of California, Irvine	United States	SCImago #329 · THE 97 · QS 293	1

Institution	Country	World ranking	Citing papers
TopQuadrant, Inc.	—	—	1
U.S. government	United States	—	1
STI Innsbruck	Austria	—	1
Onlim GmbH	—	—	1
University of Maryland Baltimore County	United States	SCImago #2777 · THE 601–800 · QS 801-850	1

## Geographic distribution of citing authors

Country	Citing papers
United States	4
Austria	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.

## 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

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

<b>Contribution</b>	<b>Core paper</b>	<b>Indep. cites</b>	<b>Supports</b>
Contribution 1	The Semantic Web: The Roles of XML and RDF	5	8 CFR 204.5(i)(3) – Outstanding Researcher