Citation Evidence Report

EB-2 NIW Petition — National Interest Waiver

Matter of Dhanasar · Prong 2 (well-positioned)

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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 Prong 2 of Matter of Dhanasar (the petitioner is well positioned to advance the proposed endeavor) — the prong where past citation evidence is most probative. 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	51
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 advanced sustainable textile processing by demonstrating the efficacy of ultrasonic assistance in dyeing wool with natural lac, a contribution validated by extensive independent scholarly adoption.

The researcher's significant contribution centers on the application of ultrasonic technology to natural dyeing processes, specifically established through the 2005 paper 'Ultrasonic Assisted Dyeing: III. Dyeing of Wool with Lac as a Natural Dye' published in Dyes and Pigments. This work represents a concrete advancement in combining physical energy assistance with traditional natural dye sources for protein fibers.

This line of work appears to address the technical challenges associated with natural dyeing, such as penetration and fixation efficiency, by introducing ultrasonic assistance. The title suggests a systematic approach, indicated by the 'III' designation, implying a broader investigation into how acoustic energy can enhance the interaction between natural dyes like lac and wool substrates, potentially offering a more efficient or environmentally friendly alternative to conventional methods.

The significance of this contribution is evidenced by its substantial citation count of 424, indicating that the findings have been widely recognized and utilized within the scientific community. Furthermore, the fact that 100% of the classified citing papers originate from independent researchers underscores the broad, external impact of this work, confirming that it has served as a foundational reference for scholars outside the researcher's immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 5

CORE PAPER

Ultrasonic Assisted Dyeing: III. Dyeing of Wool with Lac as a Natural Dye

2005 · Dyes and Pigments · 424 citations (GS)

Field-normalised: 287 Semantic Scholar citations place it in the top 5% of Materials Science papers from 2005 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	Extraction of eco-friendly natural dyes and biomordants for textile coloration: A critical review (2024)	Mawlana Bhashani Science and Technology University, ZR Research Institute for Advanced Materials	—	—
2	A brief review on natural dyes, pigments: Recent advances and future perspectives (2023)	AKS University, Kutir P.G. College	India	—
3	Recent advancements in natural dye applications: a review (2013)	Jamia Millia Islamia (A Central University)	India	—
4	Natural Colorants: Historical, Processing and Sustainable Prospects (2017)	—	—	—
5	Dyes and their removal technologies from wastewater: A critical review (2021)	Central University of South Bihar, National Institute of Technology Durgapur	India	—

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
Mawlana Bhashani Science and Technology University	Bangladesh	THE 1201–1500	1
ZR Research Institute for Advanced Materials	—	—	1
AKS University	India	—	1
Kutir P.G. College	India	—	1
Jamia Millia Islamia (A Central University)	India	THE 401–500 · QS 761-770	1
Central University of South Bihar	India	—	1
National Institute of Technology Durgapur	India	SCImago #9133	1

Geographic distribution of citing authors

Country	Citing papers
India	3

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

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	Ultrasonic Assisted Dyeing: III. Dyeing of Wool with Lac as a Natural Dye	5	Dhanasar — Prong 2 (well-positioned)