Citation Evidence Report

EB-2 NIW Petition — National Interest Waiver

Matter of Dhanasar · Prong 2 (well-positioned)

Dr.Aftab Aslam Parwaz Khan, MRSC

Center of Excellence for Advanced Materials Research and Chemistry Department, King Abdulaziz

Google Scholar profile

Generated 2026-05-22 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

3	3	1	69
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 3 classified citing papers

Citation type	Count
Independent	3
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 environmental remediation by synthesizing knowledge on polymeric g-C3N4 photocatalysts for persulfate activation, establishing a highly cited framework for advanced oxidation processes.

The researcher's contribution centers on a 2021 review published in the Journal of Hazardous Materials, which examines the advanced activation of persulfate by polymeric g-C3N4 based photocatalysts for environmental remediation. This work serves as the foundational piece in this specific line of inquiry, with no subsequent follow-up papers by the same author provided in the current dataset.

This review appears to address the need for consolidated insights into how polymeric g-C3N4 materials can enhance persulfate activation, a critical mechanism in advanced oxidation processes. By synthesizing existing literature, the work likely clarifies the role of these specific photocatalysts in degrading pollutants, offering a structured overview of mechanisms and applications that may have been fragmented prior to this publication.

The significance of this contribution is evidenced by its substantial citation count of 437, indicating that it has become a key reference in the field. Furthermore, the fact that 100% of the classified citing papers originate from independent researchers suggests that the work has achieved broad recognition and utility beyond the author's immediate academic circle, validating its impact on the wider scientific community.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 3

CORE PAPER

Advanced activation of persulfate by polymeric g-C3N4 based photocatalysts for environmental remediation: A review

2021 · Journal of Hazardous Materials · 437 citations (GS)

Field-normalised: 379 Semantic Scholar citations place it in the top 1% of Environmental Science papers from 2021 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	Graphitic carbon nitride (g-C3N4) as an emerging photocatalyst for sustainable environmental applications: a comprehensive review (2023)	Mahidol University, The Maharaja Sayajirao University	India, Thailand	Background
2	Selective Degradation of Electron-Rich Organic Pollutants Induced by CuO@Biochar: The Key Role of Outer-Sphere Interaction and Singlet Oxygen (2022)	Southwest University of Science and Technology	China	—
3	Remediation of environmentally persistent organic pollutants (POPs) by persulfates oxidation system (PS): A review (2023)	Jilin Normal University, The University of Auckland	China, New Zealand	—

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
The University of Auckland	New Zealand	SCImago #618 · THE =156 · QS 65	1
The Maharaja Sayajirao University	India	—	1
Mahidol University	Thailand	SCImago #950 · THE 601–800 · QS =358	1
Southwest University of Science and Technology	China	SCImago #2825	1
Jilin Normal University	China	SCImago #7617	1

Geographic distribution of citing authors

Country	Citing papers
China	2
India	1
New Zealand	1
Thailand	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.

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	Advanced activation of persulfate by polymeric g-C3N4 based photocatalysts for environmental remediation: A review	3	Dhanasar — Prong 2 (well-positioned)