

# Citation Evidence Report

EB-1B Petition — Outstanding Professor or Researcher

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

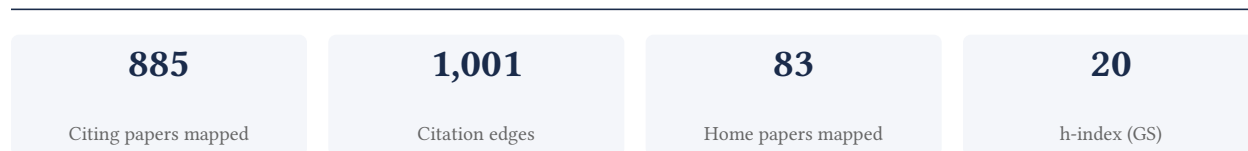
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[Google Scholar profile](#)

**Generated 2026-06-10 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



### 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.

**99.4% independent** of 173 classified citing papers

| Citation type    | Count |
|------------------|-------|
| Independent      | 172   |
| Self-citation    | 1     |
| Co-author        | 0     |
| Same-institution | 0     |

730 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 a computational framework for analyzing granular flow in static mixers and screw conveyors using DEM and CFD, significantly advancing the modeling of particle transport and premixing mechanisms.*

The researcher's core contribution rests on the 2014 paper 'DEM/CFD analysis of granular flow in static mixers,' which appears to have introduced a combined computational approach to studying granular dynamics. This foundational work was subsequently expanded by the researcher through follow-up studies in 2015 and 2018, which applied discrete element modeling to modified screw conveyor-mixers and particle transport, suggesting a sustained effort to refine simulation techniques for industrial mixing equipment.

This line of work appears to address the challenge of accurately simulating complex particle interactions in static and modified mixing systems. By progressing from general static mixer analysis to specific models of screw conveyors and premixing actions, the researcher seems to have developed a more nuanced understanding of how geometric modifications influence flow behavior, filling a gap in the computational prediction of granular transport.

The significance of this research is evidenced by its substantial uptake within the scientific community. The core paper has garnered 78 citations, while the follow-up works have received 97 and 58 citations respectively, indicating that these models are widely referenced. Notably, 99.4% of the citing papers originate from independent researchers, demonstrating that this computational framework has become a standard reference point for scholars outside the researcher's immediate circle, thereby confirming its broad impact on the field.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 34

#### CORE PAPER

#### [DEM/CFD analysis of granular flow in static mixers](#)

2014 · Powder technology 266, 240-248, 2014 · 78 citations (GS)

Field-normalised: 58 Semantic Scholar citations place it in the top 10% of Engineering papers from 2014 indexed by Semantic Scholar, by citation count.

| No. | Citing paper   | Citing institution(s)                       | Country       | S2         |
|-----|--|---|---------------|------------|
| 1   | <a href="#">Development of a DEM-VOF model for the turbulent free-surface flows with particles and its application to stirred mixing system</a>                          | Northwest University, Tianjin University    | China         | —          |
| 2   | <a href="#">Ultrasparse view X-ray computed tomography for 4D imaging</a>  | Princeton University                        | United States | —          |
| 3   | <a href="#">Improving mixing performance by curved-blade static mixer</a>  | University of Sistan and Baluchestan        | Iran          | —          |
| 4   | <a href="#">A Novel CFD Model of SMX Static Mixer Used in Advanced Continuous Manufacturing of Active Pharmaceutical Ingredients (API)</a>                               | Rutgers, The State University of New Jersey | United States | —          |
| 5   | <a href="#">Analysis of surface erosion of cohesionless soils using a three-dimensional coupled computational fluid dynamics-discrete element method (CFD-DEM) model</a> | Case Western Reserve University             | United States | Background |
| 6   | <a href="#">Numerical simulation of granular mixing in static mixers with different geometries</a>   | Mahidol University                          | Thailand      | —          |

| No. | Citing paper   | Citing institution(s)   | Country          | S2          |
|-----|--|---|------------------|-------------|
| 7   | <a href="#">Efficient Discrete Element Method Simulation Strategy for Analyzing Large-Scale Agitated Powder Mixers</a>     | Gebrüder Lödige Maschinenbau GmbH, Research Center Pharmaceutical Engineering GmbH  | Austria, Germany | —           |
| 8   | <a href="#">Effect of superimposing oscillatory flow in a milli-channel with static internals—A numerical study</a>        | CSIR-Indian Institute of Chemical Technology  | India            | —           |
| 9   | <a href="#">Simulation of different gas–solid flow regimes using a drag law derived from lattice Boltzmann simulations</a> | Hohai University, Northeastern University, Shenyang Engine Research Institute       | China            | —           |
| 10  | <a href="#">Coupled DEM and CFD simulations of soil erosion</a>  | Case Western Reserve University   | United States    | —           |
| 11  | <a href="#">Study on the flow mixing results of revolving static mixer used in solventless laminator</a>                   | Weinan Outai Printing Machinery Technology Co. Ltd., Xi'an University of Technology | China            | —           |
| 12  | <a href="#">Characteristic research of static mixer used in solventless laminator</a>                                      | Weinan Outai Printing Machinery Technology Co. LTD, Xi'an University of Technology  | China            | —           |
| 13  | <a href="#">Ultra-sparse View X-ray Computed Tomography for 4-D Imaging</a>  | Princeton University  | United States    | —           |
| 14  | <a href="#">Effect Of Taper Angle On Flow And Stress In Conical Shell Fluid Mixers</a>                                     | İZMİR DEMOKRASİ ÜNİVERSİTESİ  | Turkey           | Methodology |
| 15  | <a href="#">Discrete Element Modeling of Solid Dosage Manufacturing Processes</a>  | Rutgers, The State University of New Jersey   | 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).

#### Citing-text excerpts — how the field used this work

**METHODOLOGY** Effect Of Taper Angle On Flow And Stress In Conical Shell Fluid Mixers

“DEM (discrete element method) and CFD methods were used together to investigate the particle behaviour in a static mixer and the optimization of the mixer geometry to improve the mixing quality was discussed [4].”

#### FOLLOW-UP WORK

##### [Modified screw conveyor-mixers–Discrete element modeling approach](#)

2015 · Advanced Powder Technology 26 (5), 1391-1399, 2015 · 97 citations (GS)

Field-normalised: 71 Semantic Scholar citations place it in the top 5% of Engineering papers from 2015 indexed by Semantic Scholar, by citation count.

| No. | Citing paper  | Citing institution(s)  | Country | S2 |
|-----|---|------------------------|---------|----|
| 1   | <a href="#">A semi-automated DEM parameter calibration technique of powders based on different bulk responses extracted from auger dosing experiments</a> | RWTH Aachen University | Germany | —  |

| No. | Citing paper   | Citing institution(s)   | Country       | S2          |
|-----|--|---|---------------|-------------|
| 2   | <a href="#">A review on screw conveyors for bulk materials in various applications</a>   | King Mongkut's University of Technology North Bangkok   | Thailand      | —           |
| 3   | <a href="#">Numerical investigation on the spewing mechanism of earth pressure balance shield in a high-pressure water-rich sand stratum</a>                 | China Railway First Survey and Design Institute Group Co., Ltd, China University of Mining and Technology-Beijing | China         | —           |
| 4   | <a href="#">Indigenous development of single screw conveying machine for pyrolysis of waste plastics using nano zeolite particles in fixed bed reactor</a>   | Veltech Rangarajan Dr. Sanguhala R & D Institute of Science and Technology  | India         | Methodology |
| 5   | <a href="#">Virtual Shake Robot: Simulating dynamics of precariously balanced rocks for overturning and large-displacement processes</a>                     | Arizona State University, Pacific Gas and Electric Company, University of Nebraska-Lincoln                        | United States | Background  |
| 6   | <a href="#">Numerical simulation of conveying fine powders in a screw conveyor using the discrete element method</a>   | University of Maribor   | Slovenia      | Background  |
| 7   | <a href="#">Research of horizontal screw conveyors-mixers with rotating casing</a>   | Тернопільський національний технічний університет імені Івана Пулюя   | Україна       | —           |
| 8   | <a href="#">Theoretical analysis and experiment of pressure distribution and pressure gradient of shield screw conveyor: Taking sandy soil as an example</a> | Beijing Jiaotong University, Wuyi University  | China         | —           |
| 9   | <a href="#">Studying the design parameters of an auger filler in packaging black pepper seeds using the discrete element method</a>                          | Shiraz University   | Iran          | —           |
| 10  | <a href="#">Determination of the Natural Frequency Change of Different Bayburt Stone (Tüfit) Sizes During the Transportation in the Screw Conveyor</a>       | BAYBURT ÜNİVERSİTESİ  | Turkey        | —           |
| 11  | <a href="#">Numerical study of rock-breaking performance of cutters in heterogeneous sand cobble ground</a>  | Northeastern University   | China         | —           |

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).

#### Citing-text excerpts — how the field used this work

**METHODOLOGY** Indigenous development of single screw conveying machine for pyrolysis of waste plastics using nano zeolite particles in fixed bed reactor

“The design and fabrication of single screw conveying machine are made based on the conveying efficiency and the data collected from various studies [27,28].”

#### FOLLOW-UP WORK

### [Discrete element model of particle transport and premixing action in modified screw conveyors](#)

| No. | Citing paper   | Citing institution(s)   | Country  | S2         |
|-----|--|---|----------|------------|
| 1   | <a href="#">A review on screw conveyors for bulk materials in various applications</a>   | King Mongkut's University of Technology North Bangkok               | Thailand | —          |
| 2   | <a href="#">Research of horizontal screw conveyors-mixers with rotating casing</a>   | Тернопільський національний технічний університет імені Івана Пулюя | Україна  | —          |
| 3   | <a href="#">DEM simulation of the transport of mine concrete by a screw feeder</a>   | Shandong University of Science and Technology                       | China    | —          |
| 4   | <a href="#">The Study of Water Content on the Coal Loading Performance of Thin Coal Seam Shearer Drum by Discrete Element Method (DEM)</a>         | Shandong University of Science and Technology                       | China    | —          |
| 5   | <a href="#">Determination of the optimal working performance matching through theoretical analysis and experimental study for a screw conveyor</a> | Shanghai Maritime University  | China    | Background |
| 6   | <a href="#">Study on the Influence of Drum Vibration on the Loading Performance of Wet Coal Particles</a>  | Shandong University of Science and Technology                       | China    | —          |
| 7   | <a href="#">Research on loading efficiency of single-cutting head longwall shearer by discrete element method</a>                                  | Shandong University of Science and Technology                       | China    | —          |
| 8   | <a href="#">Farklı Eğimlerdeki Bantlı Konveyörlerde Kapasitenin Ayrık Elemanlar Metoduyla (DEM) İncelenmesi</a>                                    | YILDIZ TEKNİK ÜNİVERSİTESİ  | Turkey   | —          |

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 developed and extended DEM/CFD modeling frameworks for granular flow in industrial mixers and conveyors, establishing a methodological foundation widely adopted by independent scholars.*

The researcher's contribution centers on advancing computational modeling of granular flow, anchored by the 2016 core paper on DEM/CFD approaches for revolving static mixers. This work appears to have established a foundational methodology for simulating complex particle interactions in industrial mixing equipment.

Originality in this line of work is suggested by the progression from specific mixer modeling to broader applications. The titles indicate an expansion into screw conveyors and coupled mixer systems, implying the researcher generalized the initial DEM/CFD framework to address diverse granular flow challenges in material handling and blending processes.

The significance of this research is evidenced by substantial citation activity. The core paper has accumulated 32 citations, while follow-up studies have garnered 22 and 15 citations respectively. Crucially, 99.4% of citing papers originate from independent researchers, indicating that this methodological approach has been widely recognized and utilized by the broader scientific community beyond the researcher's immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 10

CORE PAPER

**DEM/CFD approach for modeling granular flow in the revolving static mixer**

2016 · Chemical Engineering Research and Design 109, 317-326, 2016 · 32 citations (GS)

| No. | Citing paper  | Citing institution(s)   | Country   | S2 |
|-----|---|---|-----------|----|
| 1   | <a href="#">Numerical simulation of granular mixing in static mixers with different geometries</a>  | Mahidol University  | Thailand  | —  |
| 2   | <a href="#">Study on the flow mixing results of revolving static mixer used in solventless laminator</a>  | Weinan Outai Printing Machinery Technology Co. Ltd., Xi'an University of Technology | China     | —  |
| 3   | <a href="#">Modeling the multiphase flow in hydrocyclones using the coarse-grained volume of fluid—discrete element method and mixture-discrete element method approaches</a> | Monash University   | Australia | —  |
| 4   | <a href="#">Static Mixers for High-Viscosity Systems: From Classical Helices to Machine-Learning-Optimized Geometries</a>   | China Tianchen Engineering Cooperation  | China     | —  |

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).

FOLLOW-UP WORK

**Granular flow in screw conveyors: A review of experiments and discrete element method (DEM) studies**

2025 · Powder Technology 459, 121040, 2025 · 15 citations (GS)

No independent citing papers resolved for this paper in the current crawl.

FOLLOW-UP WORK

**Blending performance of the coupled Ross static mixer and vertical feed mixer-Discrete element model approach**

2020 · Powder Technology 375, 20-27, 2020 · 22 citations (GS)

| No. | Citing paper  | Citing institution(s)                  | Country | S2 |
|-----|---|--|---------|----|
| 1   | <a href="#">Static Mixers for High-Viscosity Systems: From Classical Helices to Machine-Learning-Optimized Geometries</a>                               | China Tianchen Engineering Cooperation | China   | —  |
| 2   | <a href="#">Research progress on the processing technology of poultry feed of the black soldier fly</a>   | Shanghai Ocean University              | China   | —  |
| 3   | <a href="#">Parameter optimization of plow mixer structure based on EDEM</a>  | Central South University               | China   | —  |
| 4   | <a href="#">Experimental study of mixing performance with the tridimensional rotational flow sieve tray under low Reynolds number</a>                   | Hebei University of Technology         | China   | —  |
| 5   | <a href="#">Numerical investigation of mixing and heat transfer of granular material in a ribbon reactor: effect of impeller speed and filling rate</a> | Xiangtan University                    | China   | —  |

| No. | Citing paper   | Citing institution(s)   | Country           | S2 |
|-----|--|---|-------------------|----|
| 6   | <a href="#">Performance analysis of the fabricated animal feed mixer machine</a> | National Taiwan University of Science and Technology, Yogyakarta State University | Indonesia, Taiwan | —  |

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 developed numerical frameworks using the two-fluid model to predict critical heat flux and heat transfer coefficients in pool boiling, establishing a foundational approach for high-heat-flux thermal analysis.*

The researcher established a numerical framework for predicting critical heat flux in pool boiling using the two-fluid model, as detailed in a 2011 core paper. This work serves as the foundation for subsequent research, including a 2016 follow-up study that extended these methods to predict nucleate pool boiling heat transfer coefficients under high heat fluxes.

This line of work appears to address the challenge of accurately modeling complex phase-change phenomena through computational methods. By progressing from critical heat flux prediction to broader heat transfer coefficient analysis, the researcher demonstrates a sustained effort to refine numerical tools for high-heat-flux scenarios, suggesting a methodological evolution in thermal-fluid simulations.

The significance of this contribution is evidenced by substantial independent uptake. The core paper has accumulated 36 citations, while the follow-up work has garnered 22 citations. Notably, 99.4% of the 173 classified citations originate from independent researchers, indicating that this numerical approach has been widely adopted and validated by the broader scientific community outside the researcher's immediate circle.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 6 · 1 flagged influential by Semantic Scholar

#### CORE PAPER

#### [Numerical prediction of critical heat flux in pool boiling with the two-fluid model](#)

2011 · International Journal of Heat and Mass Transfer 54 (15-16), 3296-3303, 2011 · 36 citations (GS)

| No. | Citing paper  | Citing institution(s)  | Country                           | S2          |
|-----|---|--|-----------------------------------|-------------|
| 1   | <a href="#">A review of numerical investigation on pool boiling</a>   | Anhui University of Technology, Xi'an Jiaotong University  | China, People's Republic of China | —           |
| 2   | <a href="#">Coupled two-fluid flow and wall heat conduction modeling of nucleate pool boiling</a>                                   | University of Belgrade   | Serbia                            | Methodology |
| 3   | <a href="#">Investigation of the Roughness Effects of Heat Transfer Surface in the Pool Boiling in Acetone-Isopropanol Solution</a> | Islamic Azad University, Kermanshah Branch, Kermanshah University of Technology, Razi University | Iran                              | —           |

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).

#### FOLLOW-UP WORK

## Numerical prediction of nucleate pool boiling heat transfer coefficient under high heat fluxes

2016 · Thermal Science 20, S113-S123, 2016 · 22 citations (GS)

| No. | Citing paper   | Citing institution(s)  | Country                 | S2 |
|-----|--|--|-------------------------|----|
| 1   | <a href="#">Investigation of the Roughness Effects of Heat Transfer Surface in the Pool Boiling in Acetone-Isopropanol Solution</a>  | Islamic Azad University, Kermanshah Branch, Kermanshah University of Technology, Razi University | Iran                    | —  |
| 2   | <a href="#">Experimental study of the effects of horizontal and vertical roughnesses of heater surface on bubble dynamic and heat transfer coefficient in pool boiling</a> | Islamic Azad University, Kermanshah Branch, Kermanshah University of Technology, Razi University | Iran                    | —  |
| 3   | <a href="#">Analytical solution of nucleate pool boiling heat transfer model based on macrolayer</a>   | King Khalid University   | Kingdom of Saudi Arabia | —  |

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 Belgrade                          | Serbia        | SCImago #1090 · THE 1001–1200 · QS 761-770 | 17            |
| University of Novi Sad                          | Serbia        | SCImago #3069 · THE 1501+ · QS 1201-1400   | 11            |
| Institute of Field and Vegetable Crops Novi Sad | Serbia        | —  | 8             |
| Institute of Field and Vegetable Crops          | Serbia        | SCImago #7246                              | 5             |
| Shandong University of Science and Technology   | China         | SCImago #1280                              | 5             |
| King Fahd University of Petroleum and Minerals  | Saudi Arabia  | SCImago #1665 · THE =184 · QS 67           | 4             |
| Islamic Azad University                         | Iran          | QS 1201-1400                               | 3             |
| Podilsky State University                       | Ukraine       | —  | 2             |
| National Institute of Technology                | India         | —  | 2             |
| Rutgers, The State University of New Jersey     | United States | SCImago #302                               | 2             |
| Beijing University of Chemical Technology       | China         | SCImago #781 · THE 401–500 · QS =697       | 2             |
| Razi University                                 | Iran          | SCImago #9209 · THE 1501+                  | 2             |
| Princeton University                            | United States | SCImago #386 · THE =3 · QS =25             | 2             |
| Lovely Professional University                  | India         | SCImago #2684 · THE 501–600 · QS 901-950   | 2             |

| Institution                                | Country | World ranking | Citing papers |
|--|---------|---------------|---------------|
| Islamic Azad University, Kermanshah Branch | Iran    | —             | 2             |

### Geographic distribution of citing authors

| Country       | Citing papers |
|---------------|---------------|
| China         | 33            |
| Serbia        | 24            |
| India         | 20            |
| Iran          | 12            |
| United States | 11            |
| Germany       | 8             |
| Turkey        | 8             |
| Saudi Arabia  | 7             |
| Ukraine       | 6             |
| Canada        | 5             |
| Pakistan      | 4             |
| Morocco       | 4             |

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

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### 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      | DEM/CFD analysis of granular flow in static mixers                                  | 34                  | 8 CFR 204.5(i)(3) – Outstanding Researcher |
| Contribution 2      | DEM/CFD approach for modeling granular flow in the revolving static mixer           | 10                  | 8 CFR 204.5(i)(3) – Outstanding Researcher |
| Contribution 3      | Numerical prediction of critical heat flux in pool boiling with the two-fluid model | 6                   | 8 CFR 204.5(i)(3) – Outstanding Researcher |