



WEBINAR RISBANG

"PENGUATAN KOLABORASI INTERNASIONAL MULTIDISIPLIN MENUJU RISET DAN INOVASI KELAS DUNIA"
RABU, 14 OKTOBER 2020

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI

Prof. Dr.-Ing. Nasruddin, M.Eng

Departemen Teknik Mesin

Fakultas Teknik

Universitas Indonesia

Latar Belakang

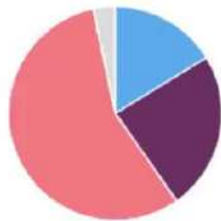


Improving Research Quality

Talking: Sesi Panel Pembicara

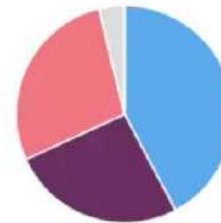
International Research Collaboration UI vs. ASEAN Universities (2014-2019)

Universitas Indonesia



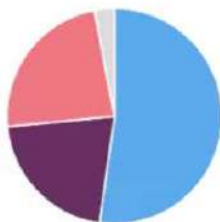
Metric		Scholarly Output	Citations
International collaboration	16.3%	2,060	22,788
Only national collaboration	24.0%	3,035	4,471
Only institutional collaboration	56.5%	7,150	9,211
Single authorship (no collaboration)	3.3%	416	570

Chulalongkorn University



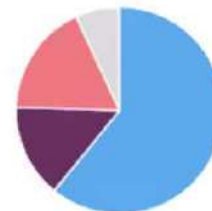
Metric		Scholarly Output	Citations
International collaboration	42.2%	6,203	78,524
Only national collaboration	26.0%	3,817	18,963
Only institutional collaboration	28.0%	4,117	17,088
Single authorship (no collaboration)	3.8%	559	1,457

University of Malaya



Metric		Scholarly Output	Citations
International collaboration	52.2%	13,947	215,677
Only national collaboration	21.2%	5,664	43,394
Only institutional collaboration	23.5%	6,272	62,044
Single authorship (no collaboration)	3.0%	809	1,956

National University of Singapore



Metric		Scholarly Output	Citations
International collaboration	60.9%	35,675	624,225
Only national collaboration	14.6%	8,529	104,049
Only institutional collaboration	17.6%	10,313	124,318
Single authorship (no collaboration)	6.9%	4,042	14,825

Source: SciVal



Highly Cited Researchers

Powered by Web of Science

- [2019 Recipients](#)
- [Methodology](#)
- [FAQs](#)

Recognizing the world's most influential researchers of the past decade, demonstrated by the production of multiple highly-cited papers that rank in the top 1% by citations for field and year in Web of Science.

Resources

- [Executive Summary](#)
- [On-demand webinar: What it means to be a Highly Cited Researcher](#)
- [Download archived HCR lists](#)
- Download [media press kit](#). For other media enquires email isi@clarivate.com

Executive Summary

Experts from the Institute for Scientific Information provide exclusive insight into the list of Highly Cited Researchers 2019, including the methodology, country, and institutional breakdowns, and

5+1 Tips about Effective Networking for Researchers:

Tip 1. Get started-Now

Tip 2. Be Open and Friendly

Tip 3. Give your network time to grow

Tip 4. Use online tools

Tip 5. Be Persistent

Tip 6. Internal Peer group

<https://app.enago.com/homepage/i/9360/five-tips-about-effective-networking-for-researchers>

20 benefits of collaboration you cannot afford to ignore (Scott Wavers)

1. **Higher impact of publications:** there is a direct correlation between the number of authors and impact factor.
2. **Encourages greater creativity.**
3. **Future:** those you collaborate with today will think of you tomorrow when they are putting together a € 20,000,000 grant proposal.
4. **Less work:** done well, collaboration means less work for everyone without compromising on results.
5. **Criticism:** collaborators are more likely to tell you, that in reality the emperor is not wearing any clothes. Debating ideas is also important for creativity and achieving Group Genius
6. **Ability to bring more experience to bear:** tapping into the distributed intelligence of a group increases your chances of solving problems more efficiently.
7. **Efficient learning:** Seeing how a team of experts solves a problem is the best learning that there is.
8. **Wider array of techniques:** a collaboration across lab groups, departments or institutions widens the access to a greater number of techniques used for research.
9. **Deeper research:** in a collaboration you are forced to do more than clip the top of trees with your research.
10. **Funding:** Getting funding in Europe and the US it is typically much easier in the context of a collaboration.

11. **Increased number of publications:** is related to number 9 as the deeper the research the more publications.
12. **Better and more concrete networks built through collaborations.**
13. **Patents**
14. **Higher likelihood of becoming commercial.**
15. **More fun** to be had with a team than on your own.
16. **Knowledge of what others are doing:** in particular by simply talking with a fellow team member on the research project.
17. **Less risk:** there are many more degrees of freedom with a collaborative network than there are with a single lab following a single line of research.
18. **Agility:** it is far more likely that you can exploit an unexpected finding in the setting of a collaboration.
19. **Early adopters:** your collaboration partners are almost by definition your early adopters for your novel approach, new technology, or new hypothesis.
20. **Impressing investors and funding agencies.**

<https://blog.globalacademyjobs.com/20-benefits-of-collaboration-as-a-researcher-you-cannot-afford-to-ignore/>

How to build and grow an international research network

- Attend and present at conferences
- Collaborate through service appointments
- Go on an exchange
- Keep in touch
- Reach out to authors
- Develop an online presence
- Send your students on an exchange
- Invite international colleagues to thesis committees
- Take a sabbatical

<https://blog.globalacademyjobs.com/how-to-build-and-grow-and-international-research-network/>



Ng, Kim Choon

King Abdullah University of Science and Technology, Thuwal, Saudi Arabia [Show all author info](#)

7403178980 <https://orcid.org/0000-0003-3930-4127> [View Mendeley profile](#)

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Metrics overview

286

Documents by author

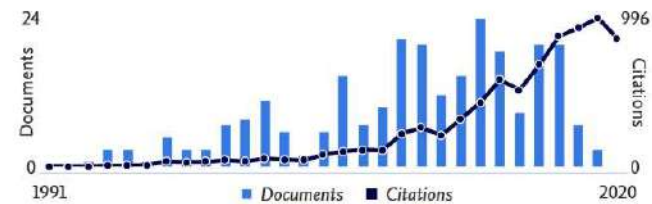
7677

Citations by 3980 documents

48

h-index: [View *h*-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics 2015-2021

Heat Storage; Refrigeration; Cooling Systems

[13 documents](#)

Solar Collectors; Tracking System; Tilt

[10 documents](#)

Desalination; Exergy; Thermoeconomics

[8 documents](#)

[View all Topics](#)

286 Documents

Cited by 3980 Documents

180 Co-Authors

Topics

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal international
2. Penguji mahasiswa S3
3. Keynote speaker conference UI
4. Adjunct Prof. UI
5. Hibah Riset A*STAR

Wang, Ruzhu

Shanghai Jiao Tong University, Shanghai, China [Show all author info](#)

7405338489 <https://orcid.org/0000-0003-3586-5728> [View Mendeley profile](#)

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Metrics overview

1121

Documents by author

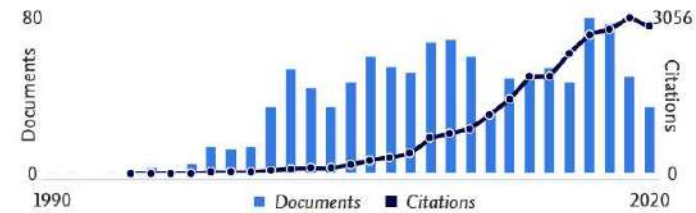
24172

Citations by 12943 documents

75

h-index: [View *h*-graph](#)

Document & citation trends



[Analyze author output](#)

[Citation overview](#)

Most contributed Topics 2015-2021

Heat Storage; Refrigeration; Cooling Systems

[117 documents](#)

Desiccants; Dehumidification; Coefficient of Performance

[46 documents](#)

Absorption Refrigeration; Solar Cooling; Lithium Bromide

[32 documents](#)

[View all Topics](#)

[1121 Documents](#)

[Cited by 12943 Documents](#)

[695 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Memberikan beasiswa S2 dan pembimbing alumni UI
2. Keynote speaker conference UI

Saha, Bidyut Baran

[Kyushu University, Fukuoka, Japan](#) [Show all author info](#)

[7202946309](#)

<https://orcid.org/0000-0002-9902-2642>

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Metrics overview

312

Documents by author

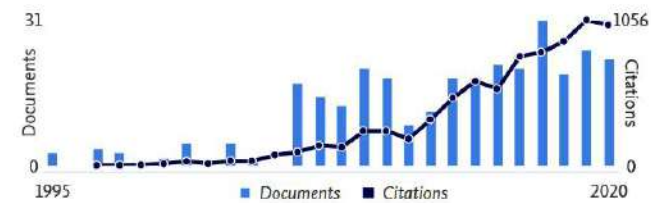
7957

Citations by 2970 documents

48

[h-index: View h-graph](#)

Document & citation trends



[Analyze author output](#)

[Citation overview](#)

Most contributed Topics [ⓘ](#)

[View all Topics](#)

[312 Documents](#)

[Cited by 2970 Documents](#)

[286 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal internasional
2. Penelitian bersama dan tempat penelitian mahasiswa S3
3. Keynote speaker conference UI
4. Research Grant dari AUN-JICA
5. Hibah World Class Professor (WCP) Dikti

Mahlia, Teuku Meurah Indra

University of Technology Sydney, Sydney, Australia [Show all author info](#)

56997615100 <https://orcid.org/0000-0002-6985-929X> [View Mendeley profile](#)

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Metrics overview

302

Documents by author

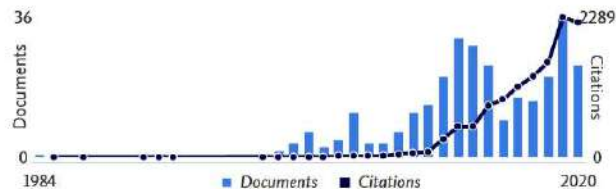
11965

Citations by 8471 documents

57

h-index: [View *h*-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics 2015-

[Transesterification; Cooking Fats and Oils](#)

23 documents

[Phase Change Materials; Heat Storage; Octadecane](#)

10 documents

[Photobioreactors; Nannochloropsis; Chlorella Sorokiniana](#)

7 documents

[View all Topics](#)

[302 Documents](#)

[Cited by 8471 Documents](#)

[449 Co-Authors](#)

[Topics](#)

publons BROWSE COMMUNITY FAQ

Home > Researchers > T M Indra Mahlia

T M Indra Mahlia
"T.M.I. Mahlia"
Highly cited
Professor - Universiti Tenaga Nasional

PUBLICATIONS	VERIFIED REVIEWS
258	3

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal international
2. Pembimbing dan penguji mahasiswa S3
3. Keynote speaker conference UI
4. Adjunct Prof. UI, Highly Cited Researcher UI (secondary affiliation)
5. Hibah World Class Professor (WCP) Dikti

Saidur, Rahman

[Sunway University](#), Selangor, Malaysia [Show all author info](#)

[SC 6602374364](#) [ORCID ID https://orcid.org/0000-0002-2656-3034](https://orcid.org/0000-0002-2656-3034) [View Mendeley p](#)

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Metrics overview

493

Documents by author

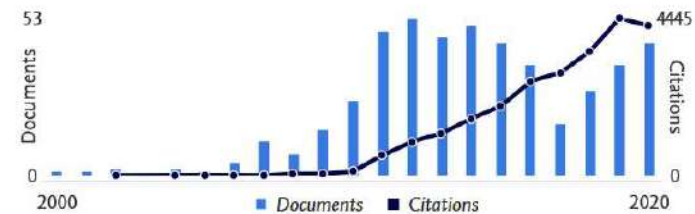
24402

Citations by 17933 documents

80

h-index: [View *h*-graph](#)

Document & citation trends



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The image shows a researcher profile on the Publons website. At the top, there is a navigation bar with 'publons' logo and links for 'BROWSE', 'COMMUNITY', and 'FAQ'. Below the navigation bar, the profile path is 'Home > Researchers > Rahman Saidur'. The main profile area features a circular avatar with the initials 'RS'. To the right of the avatar, the name 'Rahman Saidur' is displayed, followed by a 'Highly cited' badge. Below the name, the researcher's affiliation is listed: 'Researcher (Academic) - Centre of Research Excell University of Petroleum & Minerals'. A summary table shows 'PUBLICATIONS' as 213, 'TOTAL TIMES CITED' as 15,715, and 'H-INDEX' as 65. Below the table, there are sections for 'Metrics' (57 documents) and 'Narrowed Topics' (57 documents), with specific topics like 'Phase Change Materials; Latent Heat; Pulse Code Modulation' and 'Nanofluids; Photothermal Conversion; Solar Collectors' listed.

Me

Nar

[57 documents](#)

[Phase Change Materials; Latent Heat; Pulse Code Modulation](#)

[13 documents](#)

[Nanofluids; Photothermal Conversion; Solar Collectors](#)

[13 documents](#)

[View all Topics](#)

[493 Documents](#) [Cited by 17933 Documents](#) [566 Co-Authors](#) [Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal international (submitted)
2. Pembimbing dan penguji mahasiswa S2, S3
3. Keynote speaker conference UI
4. Hibah PUTI KI

Mohamad, Abdulmajeed Abd

University of Calgary, Calgary, Canada

<https://orcid.org/0000-0003-4227-8468> [View Mendeley profile](#)

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Metrics overview

196

Documents by author

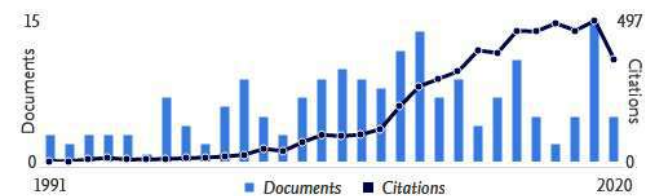
5245

Citations by 3935 documents

39

h-index:

Document & citation trends



Most contributed Topics 2015-2021

Lattice Boltzmann Method; Chapman-Enskog Expansion; Immersed Boundary

[6 documents](#)

Nanofluids; Heat Transfer Enhancement; Automobile Radiators

[5 documents](#)

Droplets; Microfluidics; Lab-on-a-chip Devices

[5 documents](#)

[View all Topics](#)

196 Documents

Cited by 3935 Documents

163 Co-Authors

Topics

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal international
2. Pembimbing dan penguji mahasiswa S3

Bardow, André

[ETH Zürich, Zurich ZH,, Switzerland](#) [Show all author info](#)

[sc 56368898100](#) [id Connect to ORCID](#) [is this you? Link Mendeley profile](#)

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Metrics overview

243

Documents by author

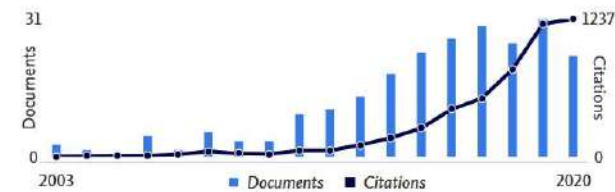
5005

Citations by 3504 documents

36

h-index: [View *h*-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics 2015-2021

Combined Heat and Power; Cogeneration Plants; Integrated Energy Systems

[23 documents](#)

Heat Storage; Refrigeration; Cooling Systems

[19 documents](#)

CAD; Chemical Product; Mixed Integer Nonlinear Programming

[16 documents](#)

[View all Topics](#)

[243 Documents](#)

[Cited by 3504 Documents](#)

[438 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal internasional
2. Pembimbing mahasiswa S2
3. Keynote speaker conference UI
4. Hibah World Class Professor (WCP) Dikti

Saito, Kiyoshi

[Waseda University, Tokyo, Japan](#) [Show all author info](#)

[55105152500](#) [Connect to ORCID](#) [View Mendeley profile](#)

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Metrics overview

97

Documents by author

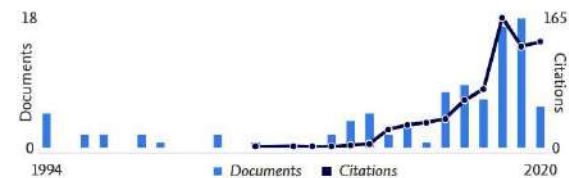
701

Citations by 540 documents

14

[h-index: View h-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics 2015-2021

[Absorption Refrigeration; Solar Cooling; Lithium Bromide](#)

[11 documents](#)

[Lithium Bromide; Heat and Mass Transfer; Absorption Refrigeration](#)

[10 documents](#)

[Desiccants; Dehumidification; Regenerators](#)

[9 documents](#)

[View all Topics](#)

97 Documents

Cited by 540 Documents

94 Co-Authors

Topics

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal internasional
2. Pemberi beasiswa, Pembimbing dan penguji mahasiswa S3
3. Keynote speaker conference UI
4. Adjunct Prof. UI
5. Hibah Penelitian dan Alat dari Ministry of Environment Japan

Yamazawa, Hiromi

[Nagoya University, Nagoya, Japan](#)

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Metrics overview

85

Documents by author

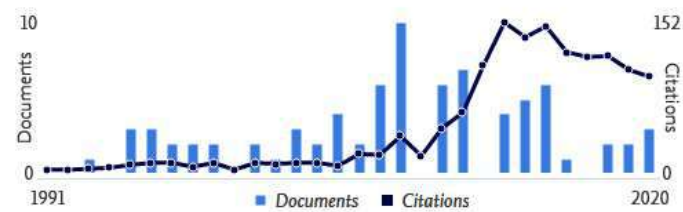
1430

Citations by 1258 documents

15

h-index:

Document & citation trends



Most contributed Topics [ⓘ](#)

[View all Topics](#)

[85 Documents](#)

[Cited by 1258 Documents](#)

[145 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal internasional
2. Pembimbing dan Penguji mahasiswa S3
3. Keynote speaker conference UI

Tokumasu, Takashi

[Tohoku University, Sendai, Japan](#) [Show all author info](#)

[sc](#) 6701561012 [ib](#) [Connect to ORCID](#) [Is this you? Link Mendeley profile](#)

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Metrics overview

140

Documents by author

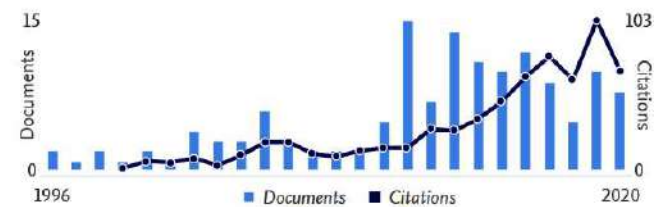
648

Citations by 545 documents

13

[h-index: View h-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics 2015-2021

Perfluorosulfonic Acid; Ionomers; Proton Conductivity

[27 documents](#)

Accommodation Coefficient; Squalane; Quantum State

[7 documents](#)

Rarefied Gas Flow; Scattering Functions; Knudsen Flow

[3 documents](#)

[View all Topics](#)

140 Documents

Cited by 545 Documents

121 Co-Authors

Topics

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal internasional
2. Pembimbing mahasiswa S3
3. Keynote speaker conference UI
4. Hibah Collaborative Research dari Tohoku Univ

Thu, Kyaw

[Kyushu University, Fukuoka, Japan](#) [Show all author info](#)

[SC](#) 24315364500 [ORCID](#)

<https://orcid.org/0000-0001-5887-1405>

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Metrics overview

133

Documents by author

2644

Citations by 1330 documents

29

[h-index: View h-graph](#)

Document & citation trends



[Analyze author output](#)

[Citation overview](#)

Most contributed Topics 2015-2021

Heat Storage; Refrigeration; Cooling Systems

[33 documents](#)

Reviewers; Editorial; Academic Libraries

[7 documents](#)

Refrigerants; Vapor Compression Refrigeration; Coefficient of Performance

[5 documents](#)

[View all Topics](#)

[133 Documents](#)

[Cited by 1330 Documents](#)

[145 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal international
2. Keynote speaker conference UI
3. Editor di Evergreen Journal Kyushu Univ

Leonhard, Kai O.

[Rheinisch-Westfälische Technische Hochschule Aachen, Aachen, Germany](#) [Show all author info](#)

[22980045700](#) [Connect to ORCID](#) [View Mendeley profile](#)

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Metrics overview

102

Documents by author

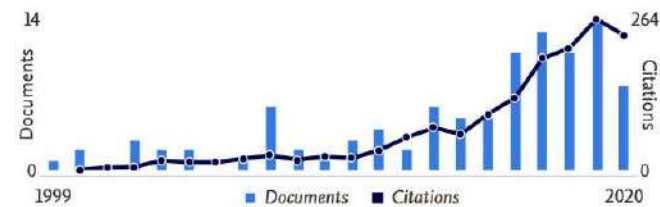
1533

Citations by 1245 documents

21

h-index: [View *h*-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics [⌵](#)

[View all Topics](#)

[102 Documents](#)

[Cited by 1245 Documents](#)

[196 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Pembimbing S3 alumni UI dengan beasiswa LPDP
2. Hibah Riset UI

Mabuchi, Takuya

[Tohoku University, Sendai, Japan](#) [Show all author info](#)

[55361270800](#)

<https://orcid.org/0000-0001-8253-4273>

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Metrics overview

44

Documents by author

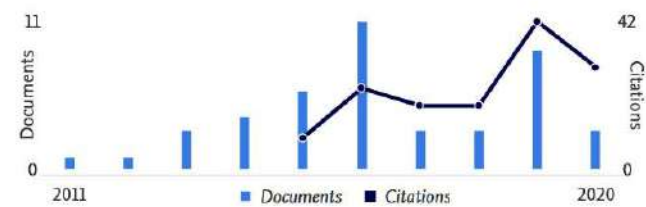
141

Citations by 101 documents

5

[h-index: View h-graph](#)

Document & citation trends



[Analyze author output](#)

[Citation overview](#)

Most contributed Topics 2015-2021

[Perfluorosulfonic Acid; Ionomers; Proton Conductivity](#)

[25 documents](#)

[Accommodation Coefficient; Squalane; Quantum State](#)

[7 documents](#)

[Proton Exchange Membrane Fuel Cell \(PEMFC\); Ionomers; Electrocalalysts](#)

[1 document](#)

[View all Topics](#)

[44 Documents](#)

[Cited by 101 Documents](#)

[21 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Pembimbing mahasiswa S3
2. Keynote speaker conference UI
3. Hibah JSPS
4. Hibah Sakura Science Japan

Aziz, Muhammad

[The University of Tokyo, Tokyo, Japan](#) [Show all author info](#)

[56436934500](#) <https://orcid.org/0000-0003-2433-8500> [View Mendeley profile](#)

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Metrics overview

187

Documents by author

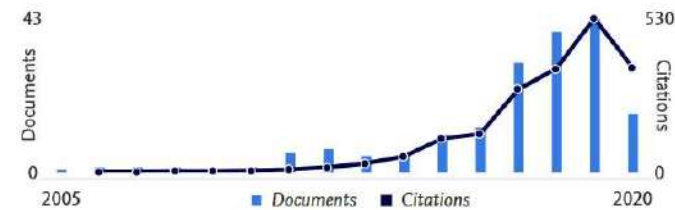
1911

Citations by 1077 documents

27

h-index: [View *h*-graph](#)

Document & citation trends



[Analyze author output](#) [Citation overview](#)

Most contributed Topics 2015-2021

Coal Rank; Dewatering; Microwave Drying

[49 documents](#)

Plug-in Electric Vehicles; Vehicle-To-Grid; Charging

[18 documents](#)

Waste Liquors; Gasification; Boilers

[7 documents](#)

[View all Topics](#)

[187 Documents](#)

[Cited by 1077 Documents](#)

[203 Co-Authors](#)

[Topics](#)

Kolaborasi Internasional dalam Peningkatan Penelitian Bidang Energi di UI:

1. Publikasi jurnal international (submitted)
2. Keynote speaker conference UI
3. Pembimbing skripsi mahasiswa UI
4.

Kesimpulan

How to collaborate more effectively: 5 tips for researchers

Tip 1. Be strategic – and don't overcommit

Tip 2. Create a collaboration agreement

Tip 3. Communicate your failures, not just your success

Tip 4. Embrace all types of outputs, not just papers

Tip 5. Learn what it takes to be a good team player

<https://www.natureindex.com/news-blog/how-to-collaborate-more-effectively-five-tips-for-researchers-science>

Terima kasih