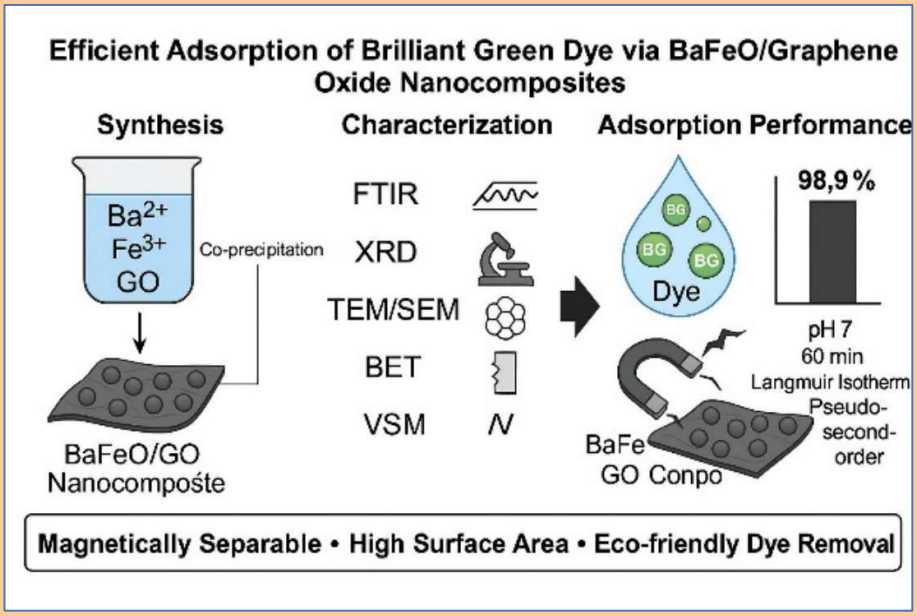
BCREC PUBLISHING GROUP

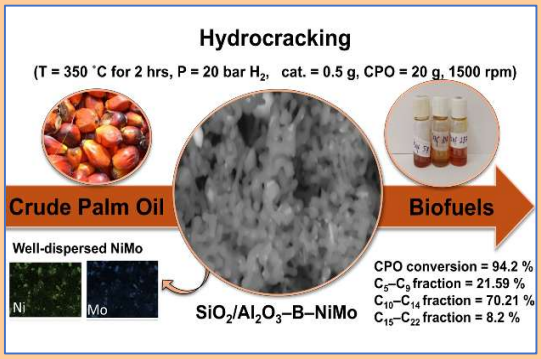
e-ISSN: 1978-2993

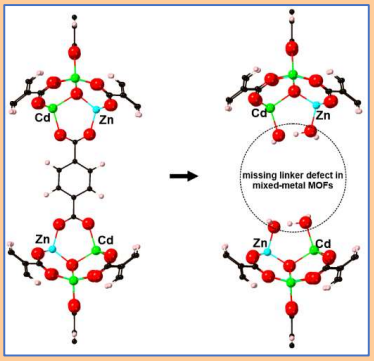
Bulletin of Chemical Reaction Engineering & Catalysis

Volume 20, Issue 4, Year 2025 (Regular Issue: December 2025)

This issue has been published online since 25th October 2025 at: https://journal.bcrec.id/index.php/bcrec







Bull. Chem. React. Eng. Catal.	Vol. 20	No. 4	Pages: 582 - 756	Semarang, December 2025	e-ISSN: 1978-2993

Published by:

Masyarakat Katalis Indonesia – Indonesian Catalyst Society (MKICS)

The technical management of this journal is supported by BCREC Publishing Group jointly with Department of Chemical Engineering, Universitas Diponegoro.

EDITORIAL TEAM

FOCUS AND SCOPE

Bulletin of Chemical Reaction Engineering & Catalysis, an international journal, provides a forum for publishing the novel technologies related to the catalyst, catalysis, chemical reactor, kinetics, and chemical reaction engineering. Scientific articles dealing with the following topics in chemical reaction engineering, catalysis science, and engineering, catalyst preparation method and characterization, novel innovation of chemical reactor, kinetic studies, etc. are particularly welcome. However, articles concerned on the general chemical engineering process development are not covered and out of the scope of this journal.

This journal encompasses *Original Research Articles*, *Review Articles* (only selected/invited authors), and *Short Communications*, including: fundamentals of catalyst and catalysis; fundamentals of chemical reaction engineering; kinetics studies of chemical reaction engineering; materials and nano-materials for catalyst; photocatalyst and photocatalysis; chemistry of catalyst and catalysis; applied chemical reaction engineering; applied catalysis; applied bio-catalysis; applied bio-reactor; membrane bioreactor; chemical reactor design (not process parameter optimization); catalyst regeneration; catalyst deactivation; surface chemistry of catalyst; bio-catalysis; enzymatic catalytic reaction (not process parameter optimization); kinetic studies of enzymatic reaction (not process parameter optimization); the industrial practice of catalyst; the industrial practice of chemical reactor engineering; application of plasma technology in catalysis and chemical reactor; and advanced technology for chemical reactors.

The manuscript articles should be submitted by online in MS Word / Open Office / PDF file format to Editorial Office through **Online Submission interface at: *https://journal.bcrec.id/index.php/bcrec***. The Author must read the author guidelines of this journal first before submitting a manuscript.

PUBLICATION INFORMATION

Bulletin of Chemical Reaction Engineering & Catalysis (e-ISSN: 1978-2993).
Short journal title (abbreviation): ***Bull. Chem. React. Eng. Catal.***
Commencement of publication: January 2008.

For year 2026, 4 issues will be scheduled for publication with 14-17 articles per issue (Volume 21, Issue 1 (April), Issue 2 (August), Issue 3 (October), and Issue 4 (December)).

Bulletin of Chemical Reaction Engineering & Catalysis, initialized as BCREC, is published freely open access of fulltext PDF articles via journal website (https://journal.bcrec.id/index.php/bcrec).

The BCREC journal is published by *Masyarakat Katalis Indonesia* - Indonesian Catalyst Society (MKICS) (https://mkics.bcrec.id). The technical management of this journal is supported by BCREC Publishing Group (https://bcrec.id) and jointly with Department of Chemical Engineering, Universitas Diponegoro.

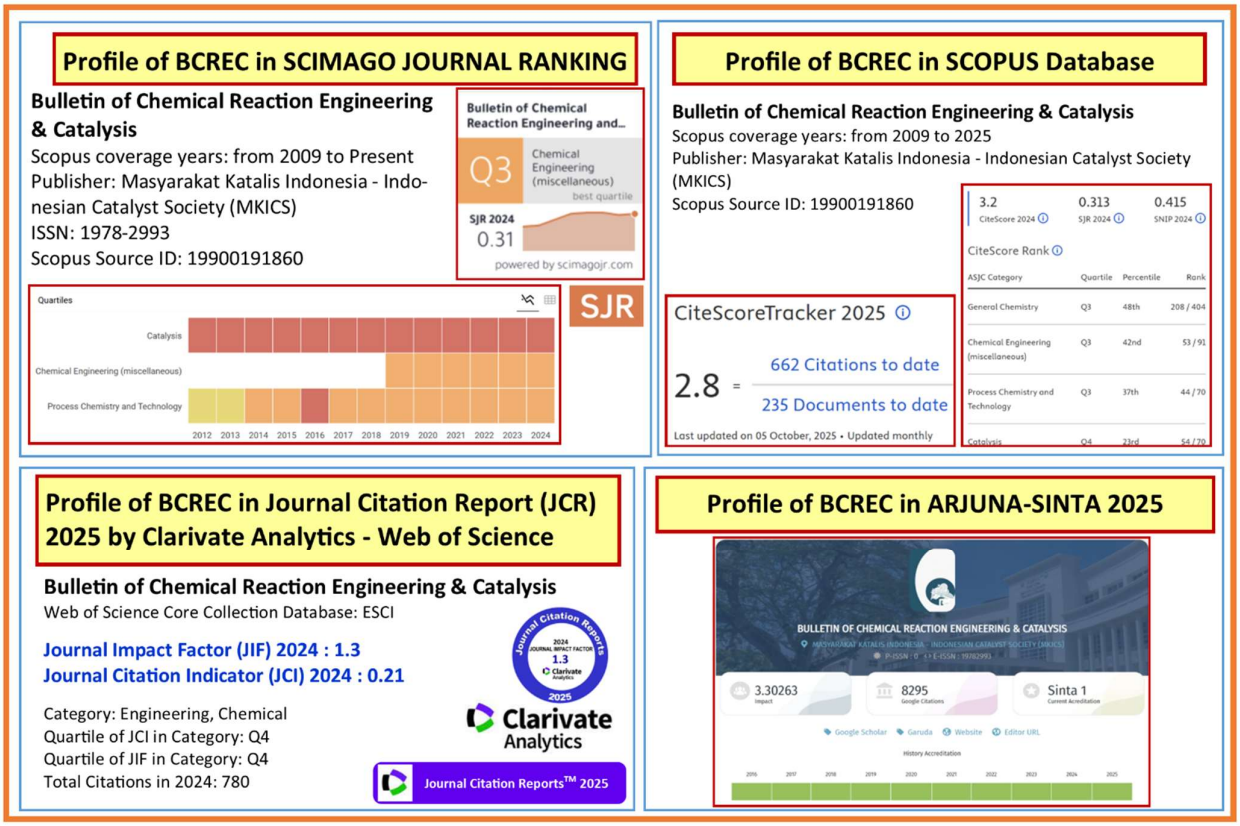
The BCREC journal has been indexed and abstracted by: Elsevier Products (Scopus, Compendex / Engineering Village), Web of Science (Emerging Source Citation Index) by Clarivate Analytics with Journal Impact Factor (JIF), Chemical Abstract Services (CAS), CABI, ASEAN Citation Index (ACI), DOAJ, Digital Dimensions, and other reputable indexers.

Fulltext PDFs of this journal have been distributed around the world by EBSCO Publishing (Academic Search Complete, Academic Search Premiere, and Academic Search R&D packages) and ProQuest Databases started from Volume 4 Number 1 Year 2009 to present.

Available online at website: https://journal.bcrec.id/index.php/bcrec
Bulletin of Chemical Reaction Engineering & Catalysis, 20 (4) 2025, iv

JOURNAL METRIC ANALYSIS (2025)

* Scopus ID	: 19900191860
* SJR Scimago (2024)	: 0.313 (Q3)
* SNIP (2024)	: 0.415
* CiteScore Scopus (2024) / Percentile	: 3.2 (Q3) / 48th
* Journal Impact Factor (JIF) 2024 (JCR 2025)	: 1.3 (Q3)
* Journal Citation Index (JCI) 2024 (Web of Science)	: 0.214 (Q3)



INDEXING AND ABSTRACTING

Bulletin of Chemical Reaction Engineering & Catalysis (e-ISSN: 1978-2993) has been covered (indexed and abstracted) by following indexing services:

1. Scopus - (Elsevier)
2. EI-Compendex - Engineering Village
3. Scimago Journal Ranking (SJR)
4. Emerging Source Citation Index (ESCI) (by Web of Science - Clarivate Analytics)
5. Dimensions - Digital Science
6. ASEAN Citation Index (ACI)
7. SINTA 1 (Accredited Grade S1)
8. ProQuest (Fulltext) Databases
9. EBSCO (Fulltext) Databases
10. Chemical Abstract Service
11. Google Scholar
12. Directory of Open Access Journal (DOAJ)
13. ResearchGate
14. ROAD ISSN (1978-2993)
15. WorldCat OCLC
16. CiteULike
17. Mendeley
18. SHERPA/RoMEO -
19. CrossRef Member
20. Index Copernicus
21. CABI Direct
22. SCIRUS - for scientific information
23. ULRICHSWEB Global Serial Directory
24. Garuda, Kemdikbud Republic of Indonesia

For detail please visit here: https://journal.bcrec.id/index.php/bcrec/pages/view/indexing.

TABLE OF CONTENTS, Vol. 20 Issue 4 Year 2025

This issue (BCREC Volume 20 Issue 4 Year 2025) has been finalized and launched at 25th October 2025 and available online for the regular issue of 26th December 2025. All articles in this issue (15 original research articles) includes 62 Authors from 9 countries/regions of origin (Viet Nam (26), Indonesia (30), India (1), Saudi Arabia (4), Japan (1), Iraq (3), United States (1), Egypt (1), and Kazakhstan (1)):