

# Journey to the Center of “Publishing Research”

Dr. Ir. Grandprix T. M. Kadja

[grandprix.thomryes@itb.ac.id](mailto:grandprix.thomryes@itb.ac.id)

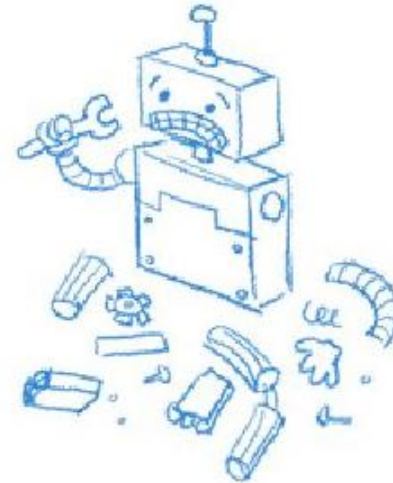
@gepekadja

# For Those Seeking Tips and Tricks

Google

**404.** That's an error.

The requested URL  
/badpage was not found on  
this server. That's all we  
know.



# Writing is the manifestation of reading



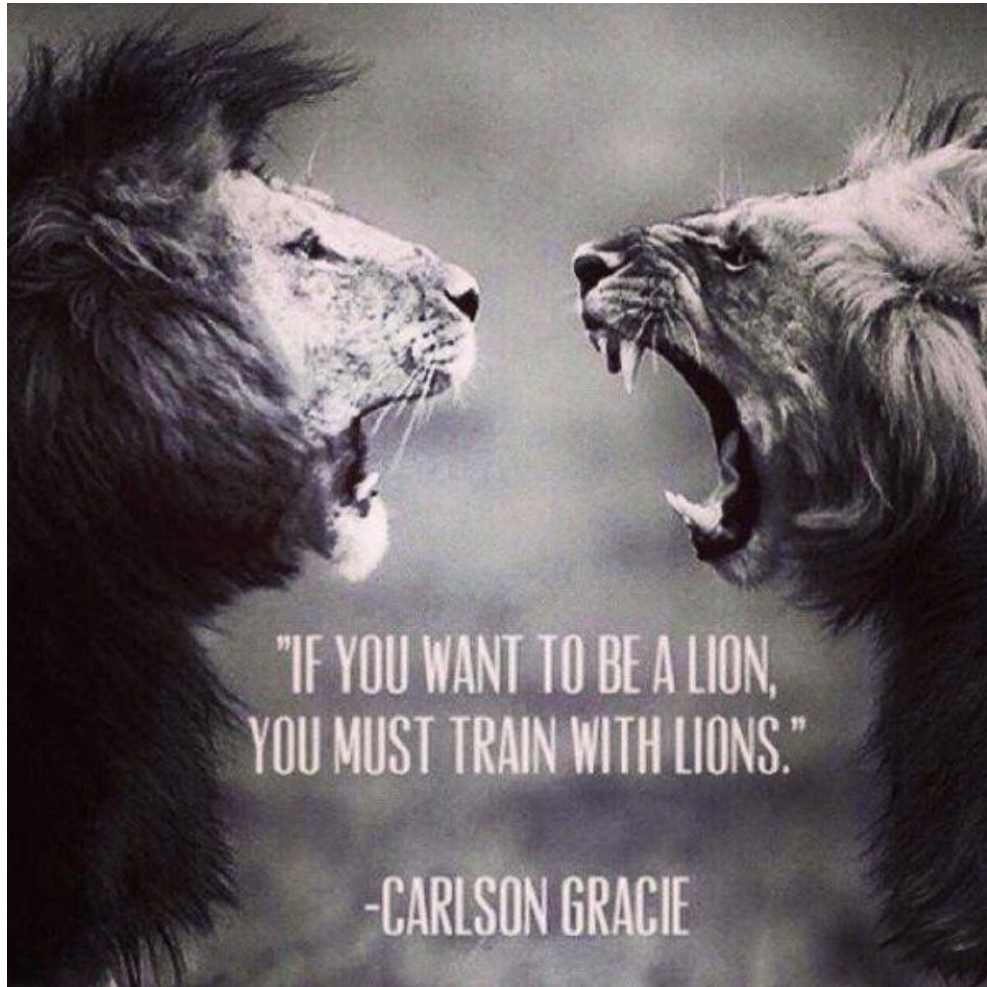
Everyone buys books,  
few ever read them.

Everyone wants growth,  
few accept pain.

Everyone wants to be  
happier, few ever change.



# What to read?



## Reading list

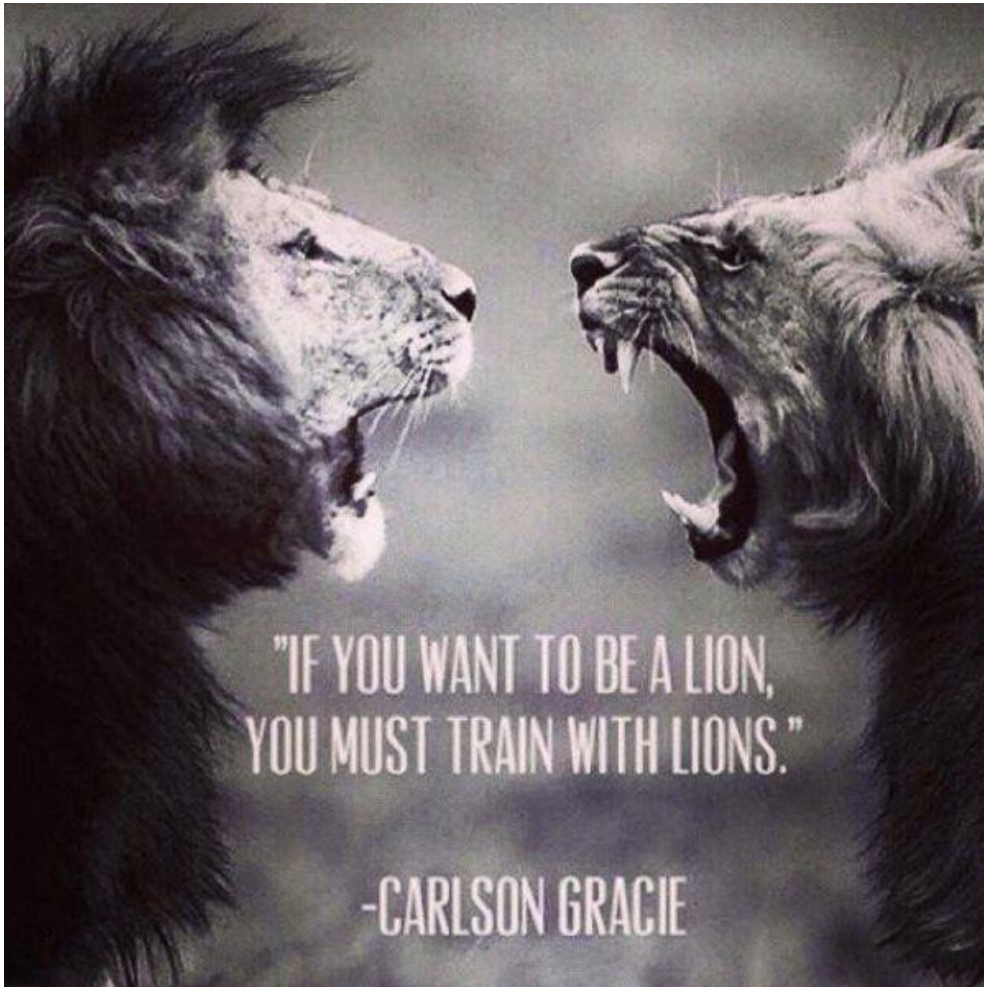
Predatory  
Proceeding,  
Predatory  
Journals,  
other alike

## Target

Top-Tier, Q1,  
High Impact



# What to read?



## Reading list

Top-Tier, Q1,  
High Impact

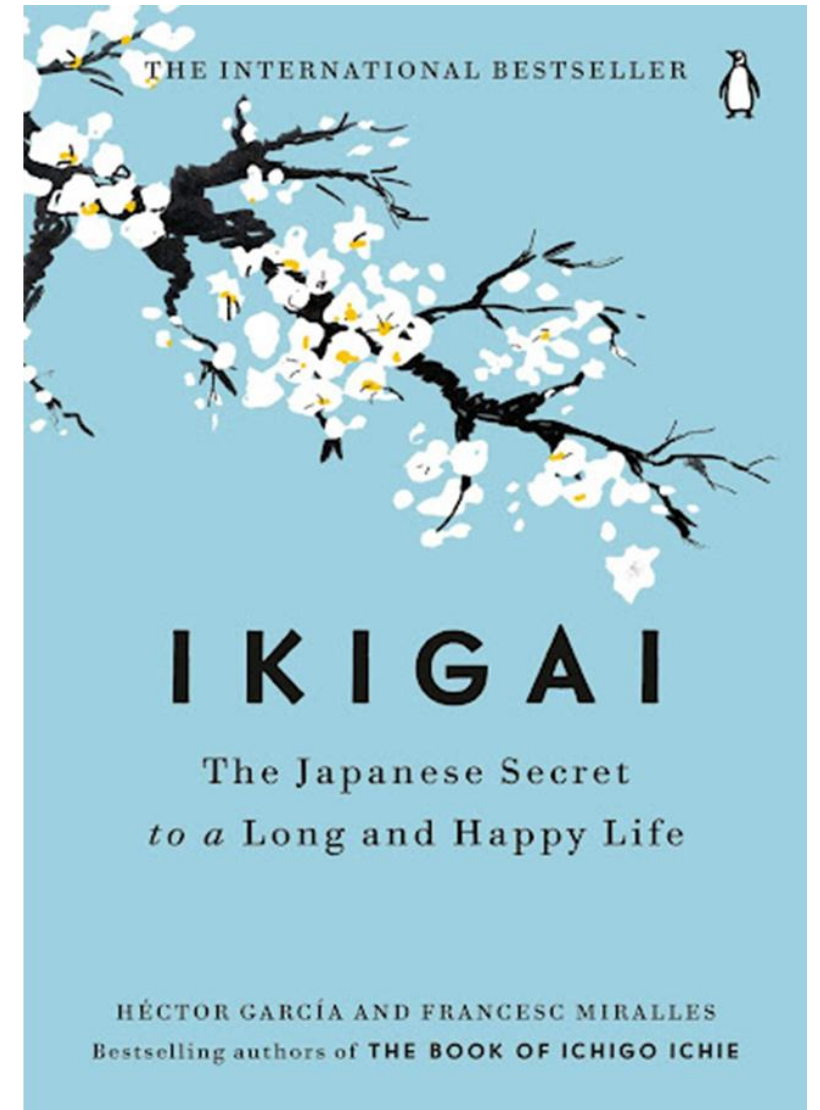
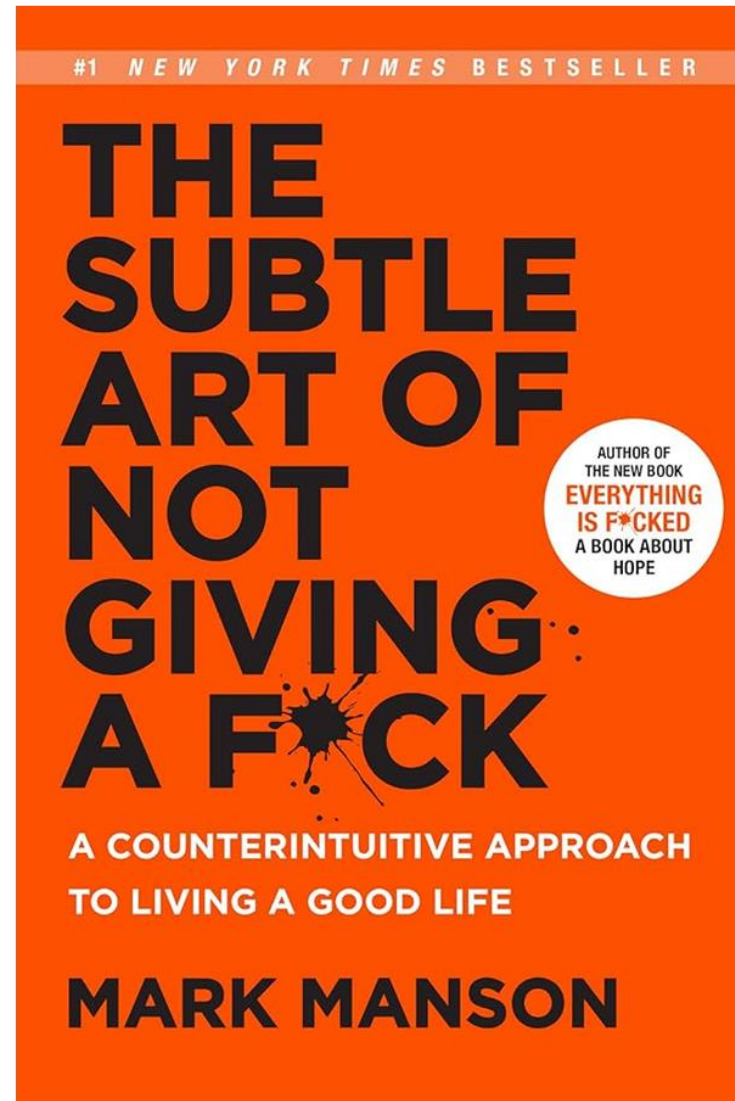
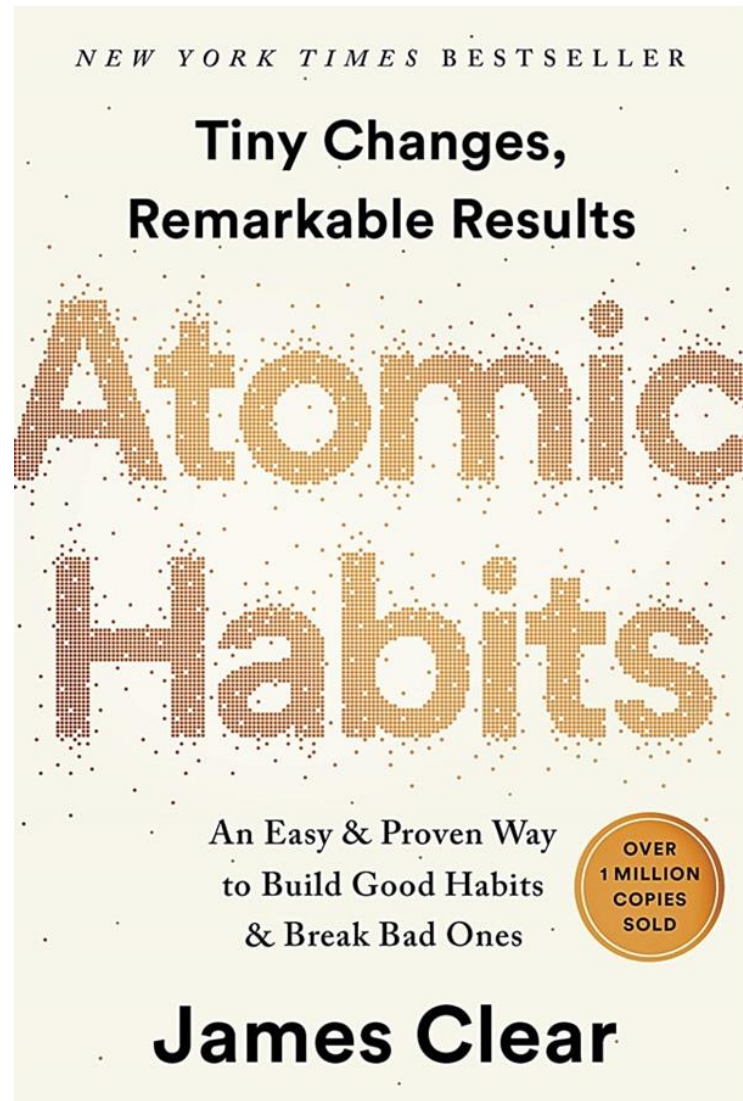
## Target

Top-Tier, Q1,  
High Impact

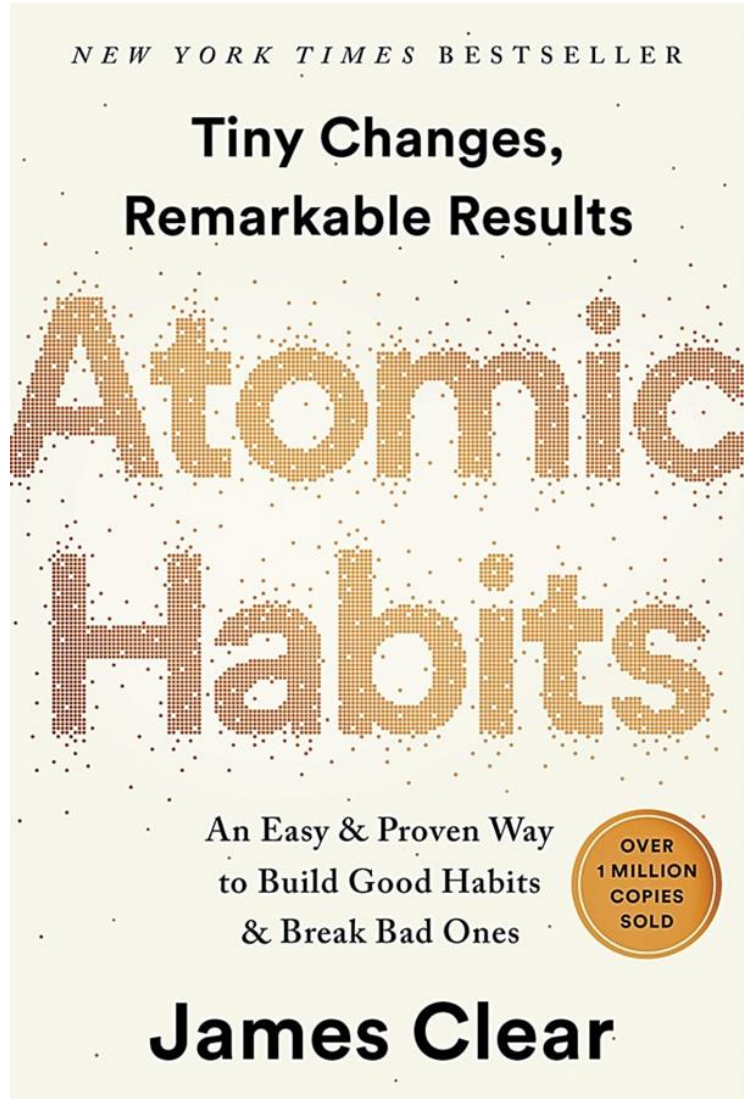




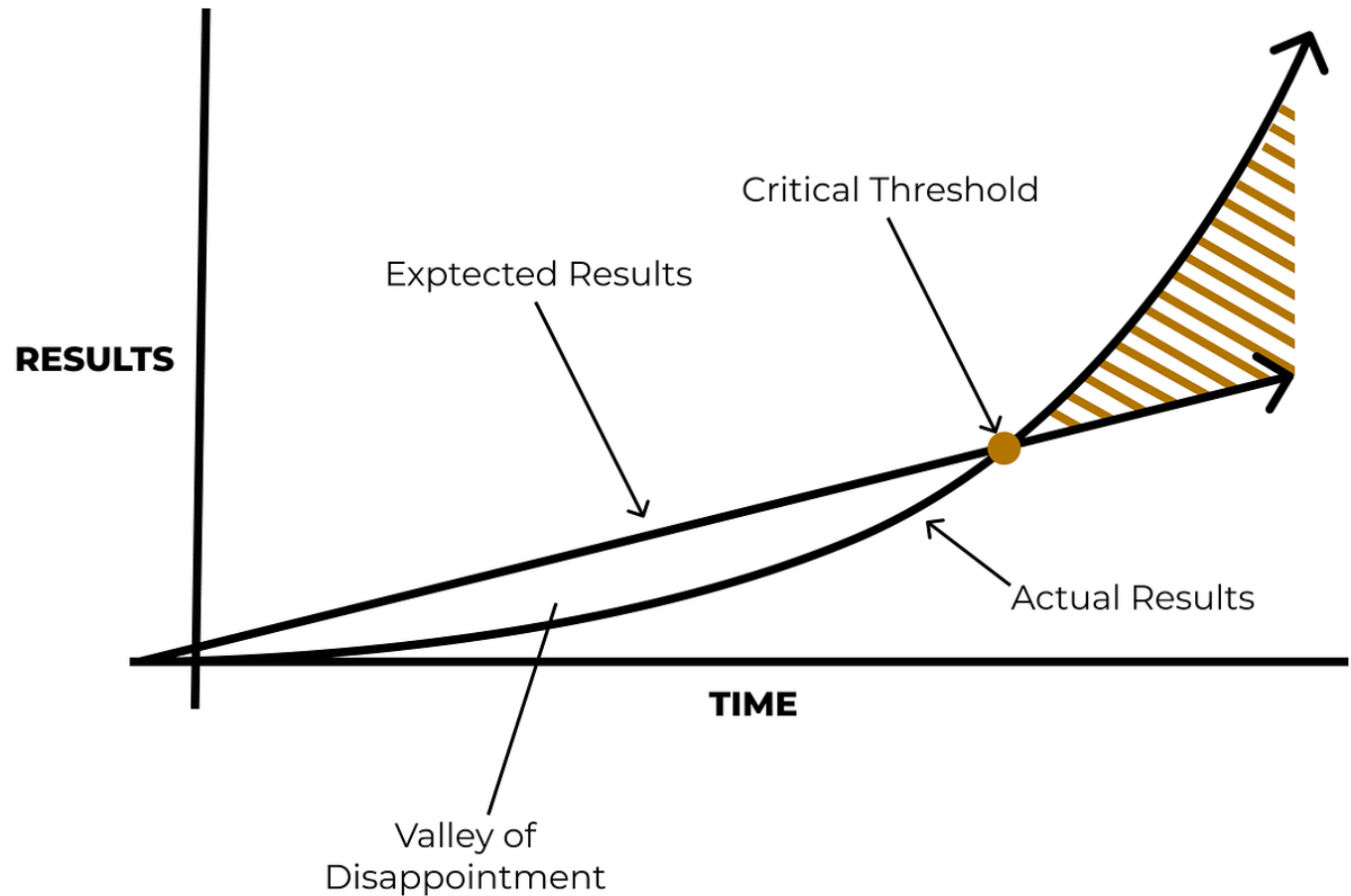
It is not always about reading the scientific journals



# Resilience

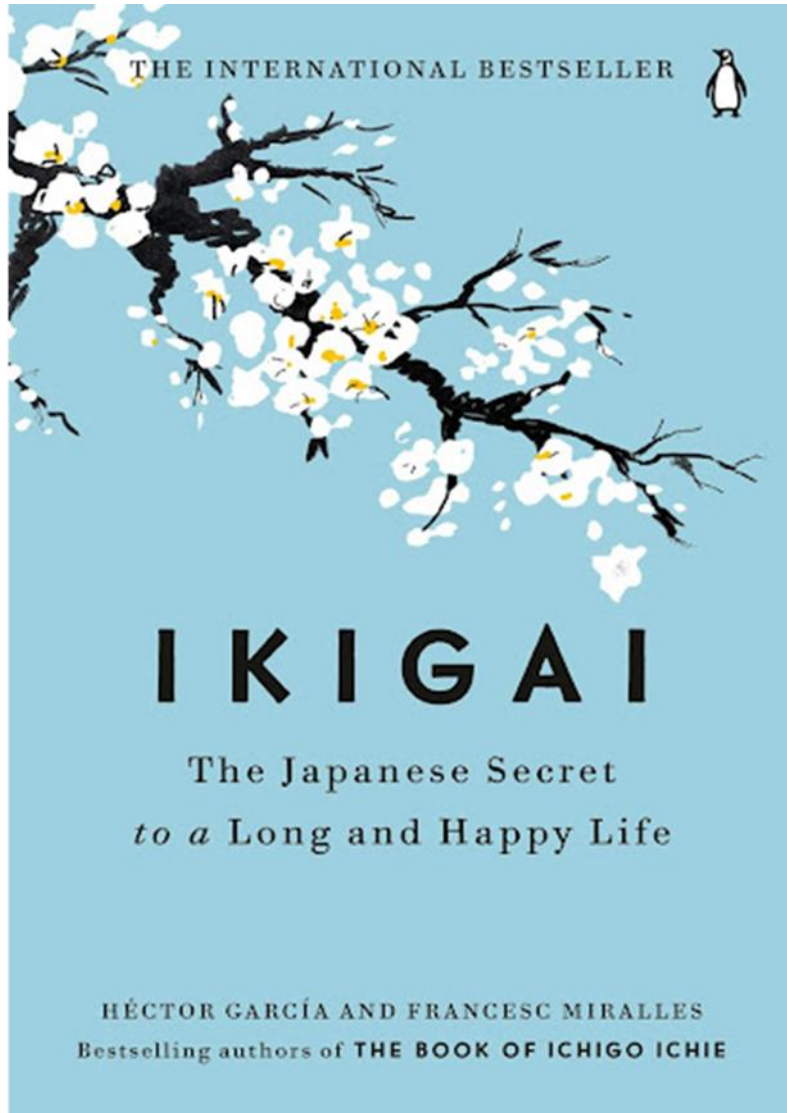


## THE PLATEAU OF LATENT POTENTIAL





# More Resilience



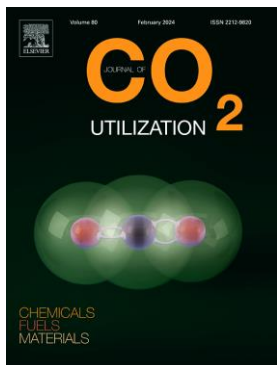
Nana korobi ya oki 七転び八起き

*Fall seven times, rise eight.*

—Japanese proverb



# One of Our Stories on Resilience



Journal of CO2 Utilization

12

CiteScore

7.7

Impact Factor

## Zeolite-based Catalyst for Direct Conversion of CO<sub>2</sub> to C<sub>2+</sub> Hydrocarbon

Noerma J. Azhari<sup>1</sup>, Nadya Nurdini<sup>2</sup>, St Mardiana<sup>2</sup>, Thalabul Ilmi<sup>2</sup>, Adroit T. N. Fajar<sup>4</sup>, I G. B. N. Makertihartha<sup>1,3</sup>, Subagjo<sup>1,3</sup>, Grandprix T. M. Kadja<sup>2,3,5\*</sup>

<sup>1</sup>Department of Chemical Engineering, Faculty of Industrial Technology, Institut Teknologi Bandung, Jl. Ganesha No. 10, Bandung, 40132, Indonesia

<sup>2</sup>Division of Inorganic and Physical Chemistry, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Jl. Ganesha no. 10, Bandung 40132, Indonesia

<sup>3</sup>Center for Catalysis and Reaction Engineering, Institut Teknologi Bandung, Jalan Ganesha no. 10, Bandung 40132, Indonesia

<sup>4</sup>Department of Applied Chemistry, Graduate School of Engineering, Kyushu University, 744 Motoooka, Fukuoka 819-0395, Japan

<sup>5</sup>Research Center for Nanosciences and Nanotechnology, Institut Teknologi Bandung, Jalan Ganesha no. 10, Bandung 40132, Indonesia

\*Corresponding email: [kadja@chem.itb.ac.id](mailto:kadja@chem.itb.ac.id)

Submitted on November 08, 2021

**Date:** Dec 01, 2021  
**To:** "Grandprix T. M. Kadja" [kadja@chem.itb.ac.id](mailto:kadja@chem.itb.ac.id)  
**From:** "Journal of CO2 Utilization" [support@elsevier.com](mailto:support@elsevier.com)  
**Subject:** Decision on submission to Journal of CO2 Utilization

Manuscript Number: JCOU-D-21-01063

Zeolite-based Catalyst for Direct Conversion of CO<sub>2</sub> to C<sub>2+</sub> Hydrocarbon

Dear Dr. Kadja,

Thank you for submitting your manuscript to Journal of CO<sub>2</sub> Utilization.

I regret to inform you that the reviewers recommend against publishing your manuscript, and I must therefore reject it. My comments, and any reviewer comments, are below.

For alternative journals that may be more suitable for your manuscript, please refer to our Journal Finder (<http://journalfinder.elsevier.com>).

We appreciate you submitting your manuscript to Journal of CO<sub>2</sub> Utilization and thank you for giving us the opportunity to consider your work.

Kind regards,  
Sang-Eon Park  
Editor-in-Chief

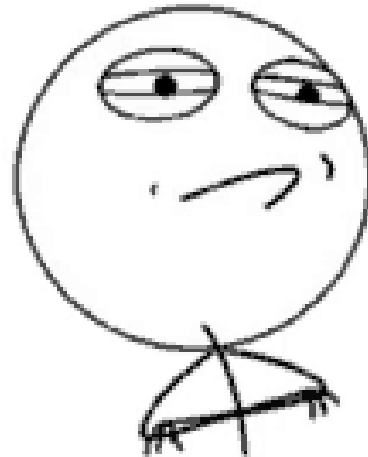
**Rejected on December 01, 2021**

Journal of CO<sub>2</sub> Utilization

# Facing “Harsh” Comment

Reviewer #1: This manuscript summarized the catalyst for one step conversion of carbon dioxide to C<sub>2</sub>+ Hydrocarbon. According to the difference of the intermediate species, the authors divided the catalytic process into the metal-zeolite system that regarded the CO as intermediates and the metal oxide-zeolite system that regarded the CH<sub>3</sub>OH as intermediates. This review is meaningful, also the paper provides some valuable views on catalyst design. However, I think the paper needs further refinement, and the logical structure need to be reconsidered. Moreover, the authors are suggested to think more deeply, rather than simply make a statement. Therefore, this manuscript can't be accepted.

**CHALLENGE ACCEPTED**



# One of Our Stories on Resilience

1 **Zeolite-based Catalyst for Direct Conversion of CO<sub>2</sub> to C<sub>2+</sub> Hydrocarbon:**

2 **A Review**

3 Noerma J. Azhari<sup>1</sup>, Nadya Nurdini<sup>2</sup>, St Mardiana<sup>2</sup>, Thalabul Ilmi<sup>3</sup>, Adroit T.N. Fajar<sup>4</sup>,

4 I.G.B.N. Makertiharta<sup>1,3</sup>, Subagio<sup>1,3</sup>, Grandprix T. M. Kadja<sup>2,3,5\*</sup>

5 <sup>1</sup>Department of Chemical Engineering, Institut Teknologi Bandung, Jl. Ganesha No. 10,

6 Bandung, 40132, Indonesia

7 <sup>2</sup>Division of Inorganic and Physical Chemistry, Faculty of Mathematics and Natural

8 Sciences, Institut Teknologi Bandung, Jl. Ganesha no. 10, Bandung 40132, Indonesia

9 <sup>3</sup>Center for Catalysis and Reaction Engineering, Institut Teknologi Bandung, Jl. Ganesha no.

10 10, Bandung 40132, Indonesia

11 <sup>4</sup>Department of Applied Chemistry, Graduate School of Engineering, Kyushu University, 744

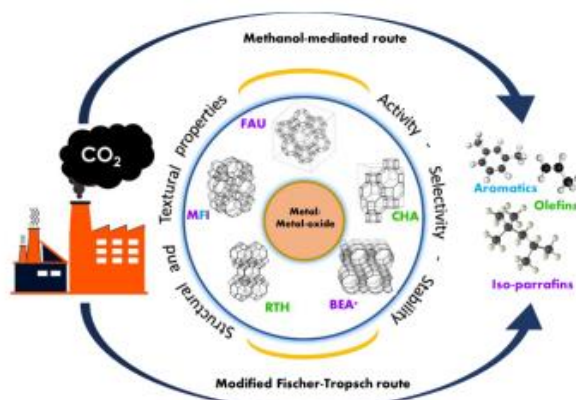
12 Motooka, Fukuoka 819-0395, Japan

13 <sup>5</sup>Research Center for Nanosciences and Nanotechnology, Institut Teknologi Bandung, Jl.

14 Ganesha no. 10, Bandung 40132, Indonesia

15 \*Corresponding email: [grandprix.thomrves@itb.ac.id](mailto:grandprix.thomrves@itb.ac.id)

16 **Graphical Abstract**



**Resubmitted on January 30, 2023 with a 32-pages rebuttal letter addressing the reviewers' comments.**

**Date:** Mar 03, 2022  
**To:** "Grandprix T. M. Kadja" [kadja@chem.itb.ac.id](mailto:kadja@chem.itb.ac.id)  
**From:** "Journal of CO<sub>2</sub> Utilization" [support@elsevier.com](mailto:support@elsevier.com)  
**Subject:** Decision on submission to Journal of CO<sub>2</sub> Utilization

Manuscript Number: JCOU-D-22-00102R1

Zeolite-based Catalyst for Direct Conversion of CO<sub>2</sub> to C<sub>2+</sub> Hydrocarbon: A Review

Dear Dr. Kadja,

Thank you for submitting your manuscript to Journal of CO<sub>2</sub> Utilization.

I am pleased to inform you that your manuscript has been accepted for publication.

My comments, and any reviewer comments, are below.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

We appreciate you submitting your manuscript to Journal of CO<sub>2</sub> Utilization and hope you will consider us again for future submissions.

Kind regards,  
Sang-Eon Park  
Editor-in-Chief

**Accepted on March 03, 2022**

Journal of CO<sub>2</sub> Utilization



# From This...

Reviewer #1: This manuscript summarized the catalyst for one step conversion of carbon dioxide to C<sub>2</sub>+ Hydrocarbon. According to the difference of the intermediate species, the authors divided the catalytic process into the metal-zeolite system that regarded the CO as intermediates and the metal oxide-zeolite system that regarded the CH<sub>3</sub>OH as intermediates. This review is meaningful, also the paper provides some valuable views on catalyst design. However, I think the paper needs further refinement, and the logical structure need to be reconsidered. Moreover, the authors are suggested to think more deeply, rather than simply make a statement. Therefore, this manuscript can't be accepted.

# To This...

Reviewer #1: Authors have fully addressed my comments/suggestions. I recommend the publication of the manuscript as is.

# Another Story from My Undergrad Student

Suci A.C. Natalya, S.Si.



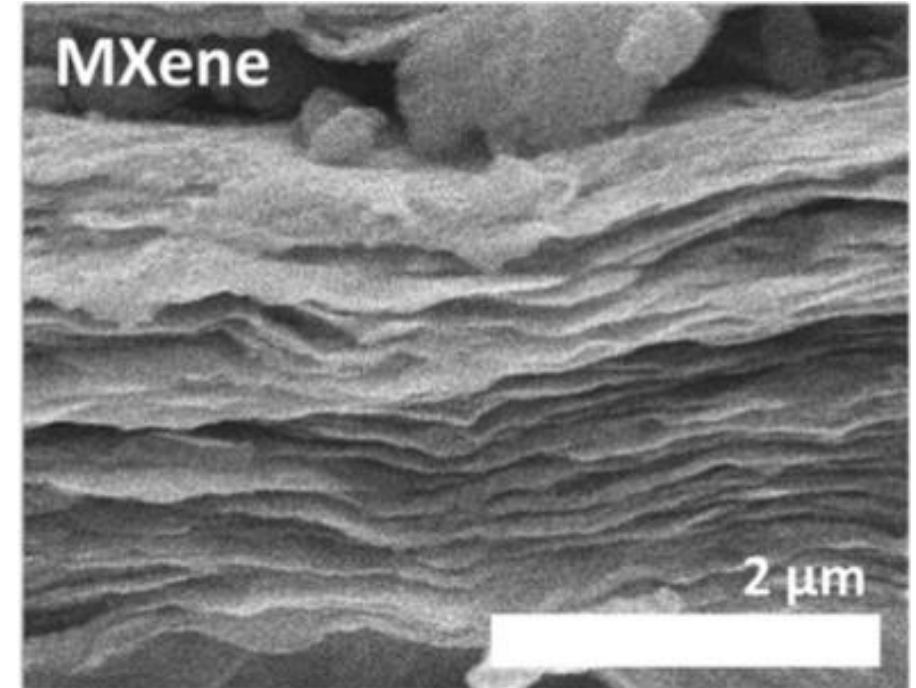
Nanokomposit Berbasis MXene ( $Ti_3C_2T_x$ ) sebagai  
Fotokatalis Reduksi Bikarbonat dan Elektrokatalis Reaksi  
Evolusi Hidrogen

Skripsi

Suci Ayu Chairuna Natalya  
10518051



PROGRAM STUDI SARJANA KIMIA  
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
INSTITUT TEKNOLOGI BANDUNG  
2022



MXenes are transition metal carbides and/or nitrides, a novel and fast-growing family of 2D nanomaterials

**Our Lab in ITB is the first to synthesize and publish research on MXene in Indonesia**

**After defense in June 2022**

# Another Story from My Undergrad Student

**Suci A.C. Natalya, S.Si.**

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**Natalya, Suci A.C.**

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17

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4

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2

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Article

Gold nanoparticles-supported  $\text{Ti}_3\text{C}_2$  MXene nanosheets for enhanced electrocatalytic hydrogen evolution reaction

1

Citations

Q1

Kadja, G.T.M., Natalya, S.A.C., Balqis, F., ...Khalil, M., Irkham

*Nano-Structures and Nano-Objects*, 2023, 36, 101059

[Show abstract](#) [View at Publisher](#) [Related documents](#)

Article

Unique  $\text{TiO}_2$ -enveloped  $\text{Ti}_3\text{C}_2$  composites for efficient visible light-assisted photoreduction of bicarbonate

2

Citations

Q2

Kadja, G.T.M., Natalya, S.A.C., Khalil, M., ...Hermawati, E., Nurfani, E.

*Chemical Physics Letters*, 2023, 823, 140541

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Article • *Open access*

Enhancement of the Catalytic Effect on the Electrochemical Conversion of  $\text{CO}_2$  to Formic Acid Using MXene ( $\text{Ti}_3\text{C}_2\text{T}_x$ )-Modified Boron-Doped Diamond Electrode

1

Citations

Q1

Jiwanti, P.K., Alfaza, A.M., Kadja, G.T.M., ...Amalina, I., Rizki, I.N.

*Energies*, 2023, 16(12), 4537

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Article

Two-dimensional (2D) nanomaterials for enhanced oil recovery (EOR): A review

13

Citations

Q1

Natalya, S.A.C., Kadja, G.T.M., Azhari, N.J., Khalil, M., Fajar, A.T.N.

*FlatChem*, 2022, 34, 100383

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# Collaboration over Competition

## Within ITB

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Institut Teknologi  
Bandung

(64) >

## Dr. Muhammad Haris Mahyuddin

Dr. Mahyuddin assisted in providing DFT-based calculation that supports our findings. It strengthened the content; thus, enabling publication in ACS journal.

I&EC  
research  
Industrial & Engineering Chemistry Research

pubs.acs.org/IECR

Research Note

## Accelerated, Mesopore-Free Synthesis of Hierarchical Nanorod ZSM-48 Assisted by Hydroxyl Radicals

Grandprix Thomryes Marth Kadja,\* Noerma Juli Azhari, St Mardiana, Munawar Khalil, Subagio, and Muhammad Haris Mahyuddin

Cite This: *Ind. Eng. Chem. Res.* 2021, 60, 17786–17791

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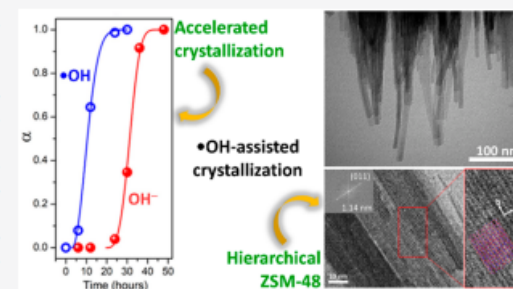
ACCESS |

Metrics & More

Article Recommendations

Supporting Information

**ABSTRACT:** Hierarchical ZSM-48 was synthesized at an accelerated rate, ca. 2 times faster than the conventional route. This is due to the hydroxyl radical ( $\bullet\text{OH}$ ), induced by persulfate ions, that accelerate the nucleation and modulate the crystal growth. As a result, the ZSM-48 zeolites are composed of nanorod crystals that form larger aggregates. This morphology renders the abundant presence of intercrystalline mesopores. Experimental and computational studies indicate the  $\bullet\text{OH}$  might induce crystal growth preferentially on the *b*-axis (one-dimensional growth); thus, leading to the formation of nanorod crystals. Hierarchical ZSM-48 exhibits significantly enhanced catalytic performance in low-density polyethylene cracking and fructose dehydration.



# Collaboration over Competition

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Institut Teknologi  
Bandung

(64) >

## Dr. Muhammad Haris Mahyuddin

Dr. Mahyuddin assisted in providing DFT-based calculation that supports our findings. It strengthened the content; thus, enabling publication in ACS journal.

**I&EC**  
research  
Industrial & Engineering Chemistry Research

pubs.acs.org/IECR

Research Note

## Accelerated, Mesopore-Free Synthesis of Hierarchical Nanorod ZSM-48 Assisted by Hydroxyl Radicals

Grandprix Thomryes Marth Kadja,\* Noerma Juli Azhari, St Mardiana, Munawar Khalil, Subagjo, and Muhammad Haris Mahyuddin

Cite This: *Ind. Eng. Chem. Res.* 2021, 60, 17786–17791

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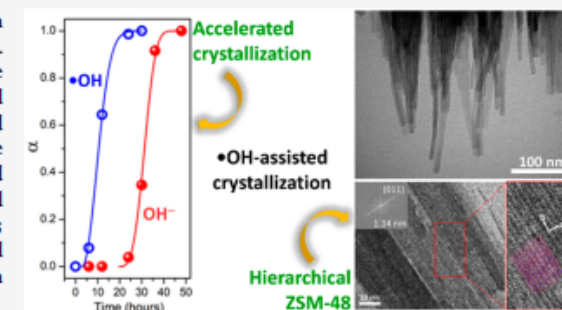
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# Collaboration over Competition



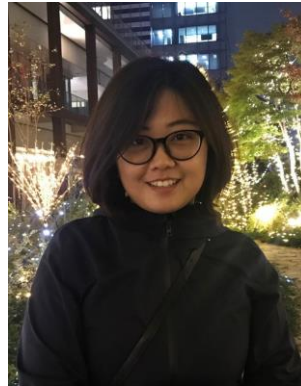


# Collaboration over Competition

With collaborators from other universities in Indonesia



**Dr. Munawar Khalil**  
**Universitas Indonesia**  
22 articles



**Dr. Ir. Maria Yuliana**  
**Universitas Katolik**  
**Widya Mandala**  
3 articles



**Prof. Yuni Krisnandi**  
**Universitas Indonesia**  
7 articles



**Prof. Witri Lestari**  
**Universitas Sebelas**  
**Maret**  
10 articles

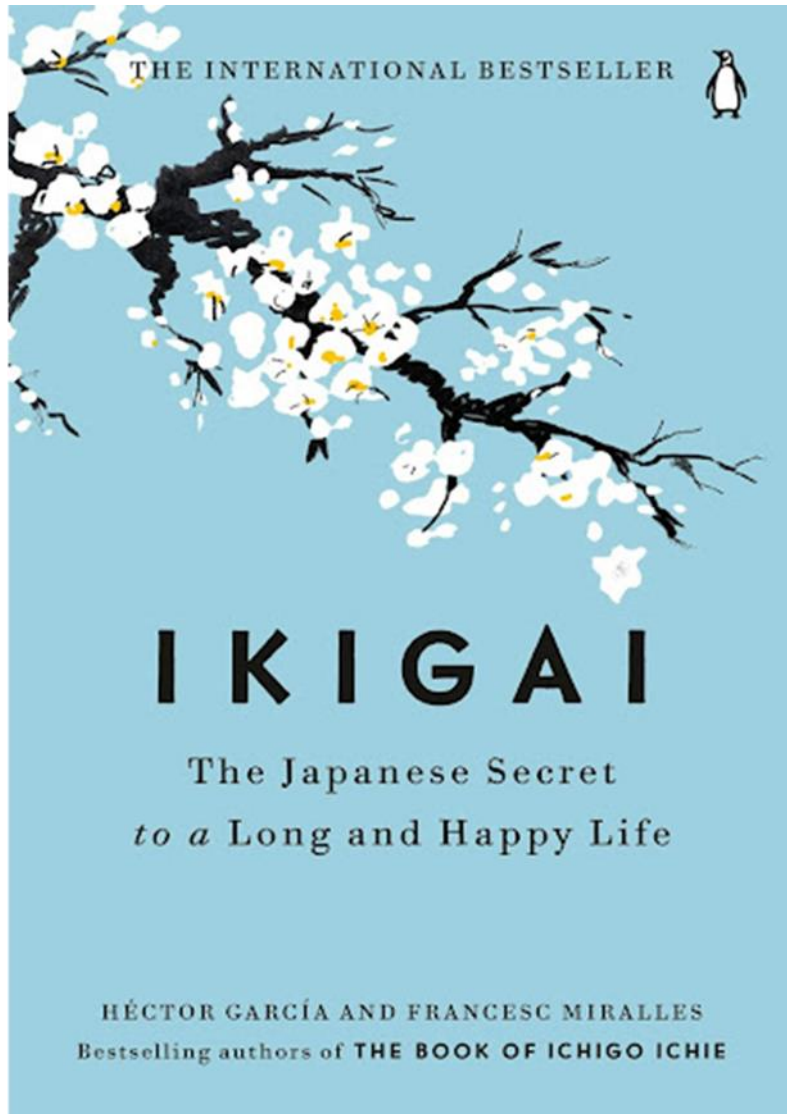


**Dr. Eka Nurfani**  
**Institut Teknologi**  
**Sumatera**  
7 articles



**Dr. Irkham**  
**Universitas Padjadjaran**  
4 articles

# Chapter IX. Resilience and *Wabi-Sabi*



## Wabi-sabi · 侘寂

Finding Beauty in Imperfections

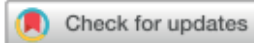
# Finding Beauty in Imperfections

Materials  
Advances



PAPER

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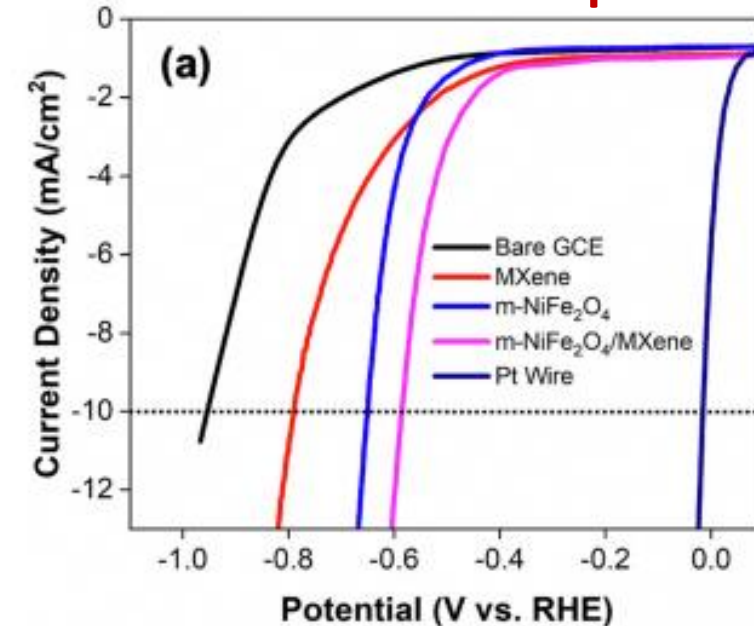


Cite this: *Mater. Adv.*, 2023,  
4, 3853

## A SBA-15-templated mesoporous NiFe<sub>2</sub>O<sub>4</sub>/MXene nanocomposite for the alkaline hydrogen evolution reaction†

Munawar Khalil, <sup>id</sup>\*<sup>ab</sup> Michael Lesa, <sup>ab</sup> Alexander G. Juandito, <sup>id</sup><sup>bc</sup>  
Afiten R. Sanjaya, <sup>a</sup> Tribidasari A. Ivandini, <sup>id</sup><sup>a</sup> Grandprix T. M. Kadja, <sup>id</sup><sup>def</sup>  
Muhammad Haris Mahyuddin, <sup>id</sup><sup>eg</sup> Mehran Sookhakistan <sup>id</sup><sup>hi</sup> and Yatimah Alias <sup>id</sup><sup>hi</sup>

Second-class performance



Interesting findings, backed up by computational study

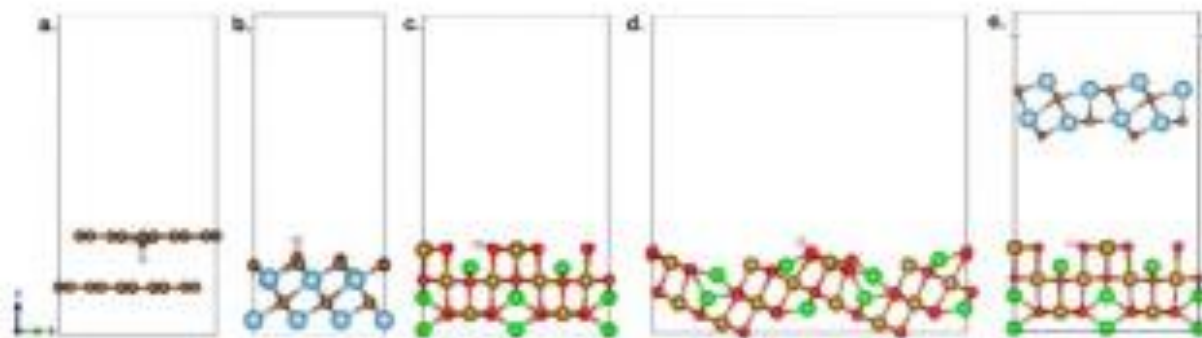


Table 4 Adsorption energy of hydrogen atoms on each studied electrocatalyst

Electrocatalyst	H-atom position	$E_{\text{ads}}$ (eV)
Graphite	Top	1.49
Ti <sub>3</sub> C <sub>2</sub> (002)	Top of C atom	-2.41
NiFe <sub>2</sub> O <sub>4</sub> (400)	Top of O atom	-6.53
NiFe <sub>2</sub> O <sub>4</sub> (311)	Top of O atom	-1.64
NiFe <sub>2</sub> O <sub>4</sub> (400)/Ti <sub>3</sub> C <sub>2</sub> (002)	Top of O atom	-10.55



No writing without reading

Be resilient

Strengthening collaboration

*Wabi-sabi*