

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: CONFERENCE PAPER
Bukti artikel: C-33

Judul Karya Ilmiah (Artikel) : Synthesis of ferrate from ferrous sulfate using wet chemical approach and its application for Remazol black B degradation: optimization and kinetic studies

Jumlah Penulis : 5 Orang Penulis pertama

Nama Penulis : Nor Basid Adiwibawa Prasetya, S J Suropto, A Haris, Ngadiwiyana, N S Mohammed

Nama Konferensi : 10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) 2020 24-25 September 2020, Indonesia

Identitas Prosiding

a. Nama Prosiding : Journal of Physics: Conference Series

b. Nomor ISSN : 1742-6596

c. Volume, No, Tahun : Vol. 1943, No. 012184, Tahun 2020

d. Penerbit : IOP Publishing

e. DOI artikel (jika ada) : <https://doi.org/10.1088/1742-6596/1943/1/012184>

f. URL Jurnal : <https://iopscience.iop.org/article/10.1088/1742-6596/1943/1/012184/meta>

g. Alamat web jurnal : <https://iopscience.iop.org/journal/1742-6596>

h. Indexing : Google Scholar, Scopus, Scimagojr

Kategori Publikasi Jurnal Ilmiah : ☒ Prosiding internasional terindeks di Scimagojr dan Scopus
 (beri ✓ pada kategori yang tepat) ☐ Prosiding internasional terindeks di Scopus, IEEE Explorer, SPIE
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Hasil Penilaian Peer Review :

Komponen yang Dinilai	Nilai Maksimal <i>conference paper</i>	Nilai Akhir Yang Diperoleh
	Dipublikasi pada Prosiding Internasional terindeks di Scimagojr dan Scopus (30)	
a. Kelengkapan unsur isi jurnal (10%)	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9	8,8
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9	8,75
d. Kelengkapan unsur dan kualitas penerbit (30%)	9	8,85
Total = (100%)	30	29,1

Reviewer 1



Prof. Drs. Gunawan, M.Si., Ph.D.
 NIP. 196408251991031001

Unit kerja:

Departemen Kimia FSM Undip
 Jabatan Fungsional: Guru Besar
 Bidang Ilmu: Kimia

Semarang, 24 Mei 2023

Reviewer 2



Dr. Retno Ariadi Lusiana, S.Si., M.Si.

NIP. 197012021997022001

Unit kerja:

Departemen Kimia FSM Undip
 Jabatan Fungsional: Lektor Kepala
 Bidang Ilmu: Kimia

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☐ Prosiding internasional
☐ Prosiding Nasional

Hasil Penilaian Peer Review :

Komponen yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	3	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,7	8,9	8,8
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	8,7	8,8	8,75
d. Kelengkapan unsur dan kualitas penerbit (30%)	8,9	8,8	8,85
Total = (100%)	29,3	29,5	29,4

Reviewer 1


Prof. Drs. Gunawan, M.Si., Ph.D.
 NIP. 196408251991031001
 Unit kerja:
 Departemen Kimia FSM Undip
 Jabatan Fungsional: Guru Besar
 Bidang Ilmu: Kimia

Semarang, 24 Mei 2023

Reviewer 2


Dr. Retno Ariadi Lusiana, S.Si., M.Si.
 NIP. 197012021997022001
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☐ Prosiding internasional
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Hasil Penilaian Peer Review :

Komponen yang Dinilai	Nilai Maksimal conference paper				Nilai Akhir Yang Diperoleh
	Internasional terindeks di Scimagojr dan Scopus (30)	internasional terindeks di Scopus, IEEE Explorer, SPIE (25)	Prosiding internasional (15)	Prosiding Nasional (10)	
a. Kelengkapan unsur isi makalah (10%)	3				3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9				8,7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9				8,7
d. Kelengkapan unsur dan kualitas penerbit (30%)	9				8,9
Total = (100%)	30				29,3
Kontribusi Pengusul (Penulis Pertama)	$60\% \times 29,3 = 17,58$				

Komentar Peer Review:

- a. **Kelengkapan dan kesesuaian unsur:** Prosiding ini disusun berdasarkan guideline yang ada. Objektif dari paper ini dijabarkan dengan baik dalam komponen-komponen dalam paper ini. Terdapat hubungan atau alur yang baik pula dari satu bagian ke bagian lainnya.
- b. **Ruang lingkup dan kedalaman pembahasan:** Artikel ini membahas tentang sintesis ferrate dari ion besi (II) menggunakan reaksi kimia basah yang selanjutnya dimanfaatkan dalam degradasi zat warna. Sebanyak 10 jurnal digunakan sebagai referensi menunjukkan bahwa cakupan dari artikel ini cukup mendalam. Novelty dari artikel ini adalah kinetika dan kondisi optimum proses degradasi zat warna.
- c. **Kecukupan dan kemutakhiran data/informasi dan metodologi:** Metodologi dan Data yang disajikan cukup lengkap dan dilengkapi dengan penggunaan instrumen UV-visibel untuk karakterisasi material ferrate dan COD untuk mengetahui efektivitas proses degradasi. Mayoritas artikel yang menjadi rujukan adalah terbit 10 tahun sebelum artikel ini terbit menandakan bahwa dilakukan studi literatur yang terkini.
- d. **Kelengkapan unsur dan kualitas penerbit:** Similarity indeks dari paper ini sebesar 19% yang kemungkinan berasal dari kalimat yang memiliki susunan yang mirip, akan tetapi secara substansi tidak terindikasi adanya plagiarisme dalam paper ini. Kualitas paper ini juga dapat dilihat dari jumlah referensi yang banyak yang digunakan.

Semarang, 22 Mei 2023

Reviewer 1.



Prof. Drs. Gunawan, M.Si., Ph.D.

NIP. 196408251991031001

Unit kerja :

Departemen Kimia FSM Undip

Jabatan Fungsional: Guru Besar

Bidang ilmu: Kimia

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☐ Prosiding internasional
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	Internasional terindeks di Scimagojr dan Scopus (30)	internasional terindeks di Scopus, IEEE Explorer, SPIE (25)	Prosiding internasional (15)	Prosiding Nasional (10)	
a. Kelengkapan unsur isi makalah (10%)	3				3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9				8,9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9				8,8
d. Kelengkapan unsur dan kualitas penerbit (30%)	9				8,8
Total = (100%)	30				29,5
Kontribusi Pengusul (Penulis Pertama)	$60\% \times 29,5 = 17,7$				

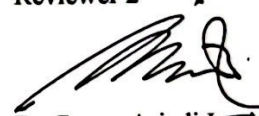
Komentar Peer Review:

- a. **Kelengkapan dan kesesuaian unsur:** kesesuaian unsur dari artikel ini sudah lengkap dan sesuai dengan kaidah penulisan jurnal yang mencakup Title, Introduction, Experimental, Results and Discussion, Conclusion, dan References. Penulis telah mengikuti author guidelines. Satu bagian dengan bagian lainnya saling berhubungan dan saling melengkapi.
- b. **Ruang lingkup dan kedalaman pembahasan:** Sebanyak 21 jurnal dijadikan referensi menunjukkan bahwa paper ini memiliki pembahasan yang cukup luas dan mendalam. Adanya 10 figures dipaparkan dalam artikel dan dilengkapi dengan penjelasan yang cukup memiliki kedalaman. Pembahasan paper ini mampu menawarkan penjelasan tentang kemampuan oksidator ferrate dalam mendegradasi limbah zat warna remazol black B.
- c. **Kecukupan dan kemutahiran data/informasi dan metodologi:** Metodologi yang digunakan melibatkan instrumentasi UV-visibel dalam menganalisis perubahan konsentrasi limbah zat warna. Data yang diperoleh dipaparkan dalam kurva maupun diagram batang dan cukup bisa dijelaskan secara ilmiah. Keterkinian literatur pendukung cukup baik karena mayoritas artikel referensi diterbitkan kurang dari 10 tahun.
- d. **Kelengkapan unsur dan kualitas penerbit:** Journal of Physics: Conference Series merupakan prosiding internasional yang diterbitkan oleh IOP Publishing dan terindeks di Scimagojr dan Scopus. Similarity indeks dari paper ini menggunakan turnitin sebesar 19% dan menunjukkan orisinalitas artikel cukup baik.

Turnitin: similarity 19%

Semarang, 22 Mei 2023

Reviewer 2



Dr. Retno Ariadi Lusiana, S.Si., M.Si.
NIP. 197012021997022001

Unit kerja :

Departemen Kimia FSM Undip

Jabatan Fungsional: Lektor Kepala

Bidang ilmu: Kimia

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Peer review declaration

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All papers published in this volume of Journal of Physics: Conference Series **have been peer reviewed through processes administered by the Editors.** Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing.

- **Type of peer review: Single blind**
- **Conference submission management system: via conference website and conference email**
- **Number of submissions received: 263**
- **Number of submissions sent for review: 233**
- **Number of submissions accepted: 185**
- **Acceptance Rate (Number of Submissions Accepted / Number of Submissions Received $\times$ 100): 70%**
- **Average number of reviews per paper: 1**
- **Total number of reviewers involved: 39**
- **Any additional info on review process:**
 1. **The review process was according to the guidelines given by JPCS.**
 2. **Plagiarism is prohibited.**
 3. **Reviews have been conducted by expert referees, who have been requested to provide unbiased and constructive comments aimed, whenever possible, at improving the work.**
 4. **In all cases at least minor revisions were required.**
- **Contact person for queries:**

Name	: Nor Basid Adiwibawa Prasetya, S.Si., M.Sc., Ph.D.
Affiliation	: Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Indonesia
Email	: nor.basid.prasetya@live.undip.ac.id



Source details

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2021

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Published online: 14 July 2021

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Peer review declaration

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012001

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Carrying capacity of mangrove tourism in the district of Cilamaya Wetan, Karawang regency, West Java province



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012012

High fluorescent carbon dots/Ag as a sensitive sensor for tetracycline waste in aqueous solution

T A Khar, H Susanto, H Padiyanto, E Hidayanto, H P Hapsari, A A Wibowo, A N Syahida and P D Driana

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Synthesized and characterization nanosized synthesis Fe_3O_4 powder from natural iron sand

A N Syahida, H Sutanto, I Alkian, F D D Irianti, A A Wibowo and P Priyono

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012014

Characterization structure of Fe_3O_4 @PEG-4000 nanoparticles synthesized by co-precipitation method

F D D Irianti, H Sutanto, P Priyono, A A Wibowo, A N Syahida and I Alkian

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012015

The effect of 6 hours stirring time on natural iron sand base on magnetics Fe_3O_4 nanoparticle by sonification

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Online monitoring of water pollution level based on dissolved oxygen (DO) and biochemical oxygen demand (BOD) using wireless sensor system

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Measurement performance quality of services (QoS) to optimizing on wireless sensor network topology for water pollution monitoring system

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A study of relative dissociation energy through electro-optics effect as a potential tool for evaluation of cooking oil quality

A Septiani, G N Utomo, Sumariyah, V Richardina, H Sugito, M Azam, Q M B Soesanto and K S Firdausi

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Correlation of V_p/V_s ratio against the resistivity value to determine the aquifers presence estimation in jetak sub-village, getasan sub-district, Semarang regency

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M N Irham, T Yulianto, G Yuliyanto and S Widada

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“Developing Innovations and Challenges in Science And Technology For Better Living”

September 24-25, 2020

PREFACE

The International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) is an annual conference organized by the Faculty of Sciences and Mathematics (FSM), Diponegoro University (UNDIP), Semarang, Central Java, Indonesia. This seminar has been successfully conducted since 2011 and therefore becoming an annual event since then. This annual ISNPINSA has been intensively achieved high level improvement in strengthening the collaboration between scientists either from Indonesia or other countries, stimulating a new research partnership, and contributing to formulating policies to increase the important roles of science for the community.

The 10th ISNPINSA was held on September 24-25, 2020 with the theme of “DEVELOPING INNOVATIONS AND CHALLENGES IN SCIENCE AND TECHNOLOGY FOR BETTER LIVING”. Due to the outbreak of COVID-19, the conference process was carried out virtually using licensed Zoom media. The presentations were categorized into two terms, which were plenary presentation and parallel presentation. Keynote speakers were invited to deliver their expertise and research findings at the plenary presentation and each had given 1 hour of speech. While invited speakers together with all parallel presenters delivered their presentation in parallel session with time of speech including Q&A for each of 15 minutes.

The number of participants of the seminar were 313 including 7 keynote speakers, 5 invited speakers, presenters and non-presenters coming from various institutions of various countries consist of researchers, lecturers, postgraduate and undergraduate students from various universities. There were 263 papers presented in this seminar and after the review process, there are 199 articles to be published in the present conference proceeding. All published articles remain the sole responsibility of the author for the content of the paper.

We would like to take this opportunity to extend our appreciation to all keynote speakers and invited speakers for their valuable presentation. We also would like to thank all the authors for submitting and presenting their papers to our conference, the Organizing Committee members and the supporting staff for their hard work, as well as all the Scientific & Editorial Committee and the reviewers for their constructive recommendations and critical comments helped to improve of the submitted papers. All these contributions eventually make the 10th ISNPINSA 2020 a successful and fruitful event.

The 10th ISNPINSA 2020 Organizing Committee hopes you will enjoy reading this JPCS volume.

The Chairman,
Nor Basid Adiwibawa Prasetya, S.Si., M.Sc., Ph.D

PREFACE • The 10th ISNPINSA 2020



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This certificate is presented to

Nor Basid Adiwibawa Prasetya

for outstanding contribution as

Presenter

at the Virtual Conference of the 10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA), held on September 24th-25th, 2020
with paper entitled as follows:

Synthesis of ferrate from ferrous sulfate using wet chemical approach and its application for Remazol Black B degradation: optimization and kinetic studies

Semarang, September 25th, 2020

Dean of Faculty of Science and Mathematics
Diponegoro University



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Basic study on evaluation of X-ray dose distribution using plastic scintillator plate and digital CMOS camera

H Yoshitani¹, T Fujibuchi² and C Anam³

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Abstract

Evaluation of dose distribution in a phantom is effective for quality control of radiation diagnostic equipment and evaluation of exposure. However, measurements at multiple points using a dosimeter is complicated. An alternative is to combine a plastic scintillator (PS) plate and digital camera to obtain the dose distribution of the entire phantom. In this study, the basic characteristics of this system were examined. A PS was sandwiched between Polymethyl Methacrylate (PMMA) disk phantom, and irradiation was performed while the tube current was changed from one direction.

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Convolution properties of bounded analytic function classes with higher and complex order defined by q -derivatives operator

E E Ali^{1,2} and R M El-Ashwah³

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Abstract

We first present two classes $\mathcal{S}_{\Sigma}^*(\alpha, \eta)_q^n$ and

$\mathcal{S}_{\Sigma}^*(\alpha, \eta)_q^n$ of complex order bounded q -starlike and q -convex univalent functions using the Salagean q -derivative operator $D_{q,n}f(z)$ that is defined in $\mathcal{H} = \{z \in \mathbb{C} : |z| < 1\}$. In such classes, we also analyze the convolution properties, inclusion properties, and estimates of coefficients.

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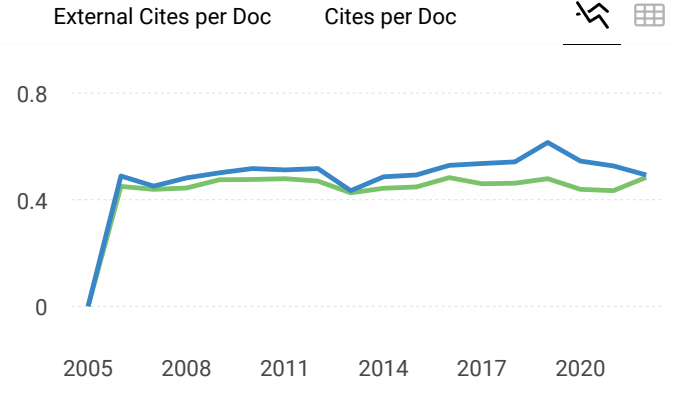
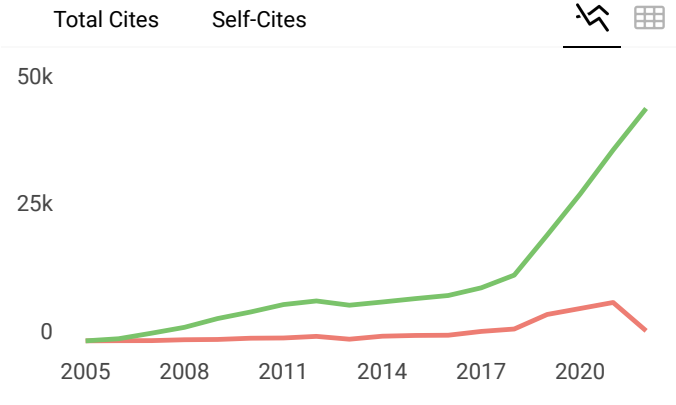
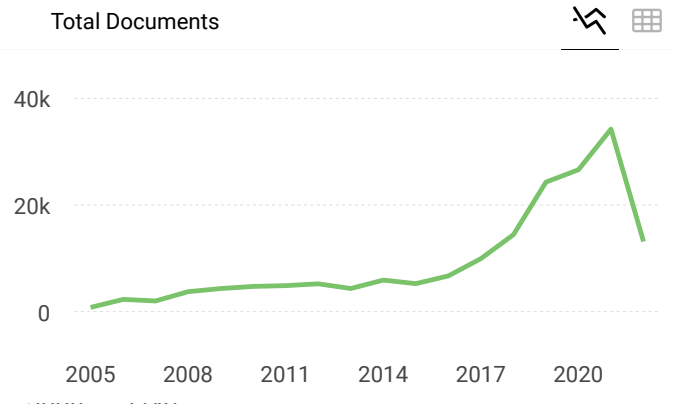
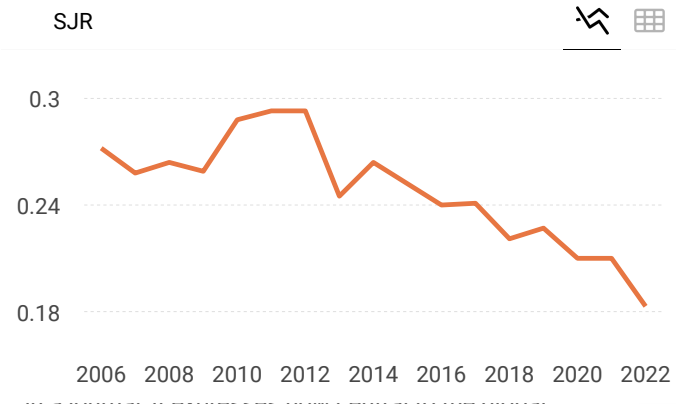
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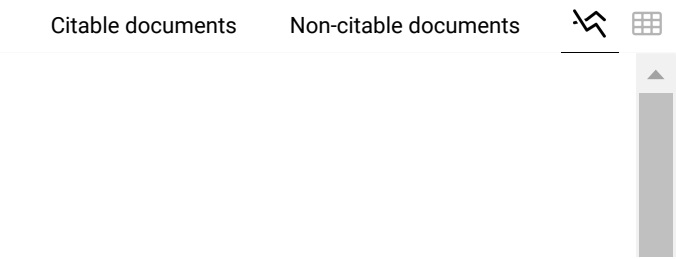
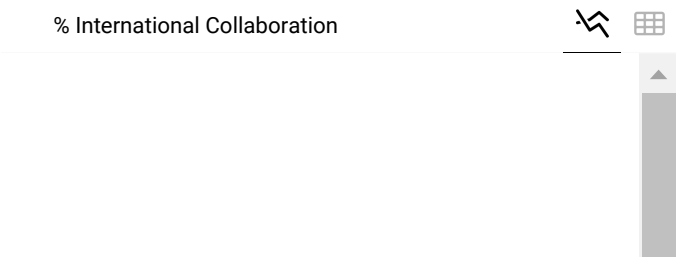
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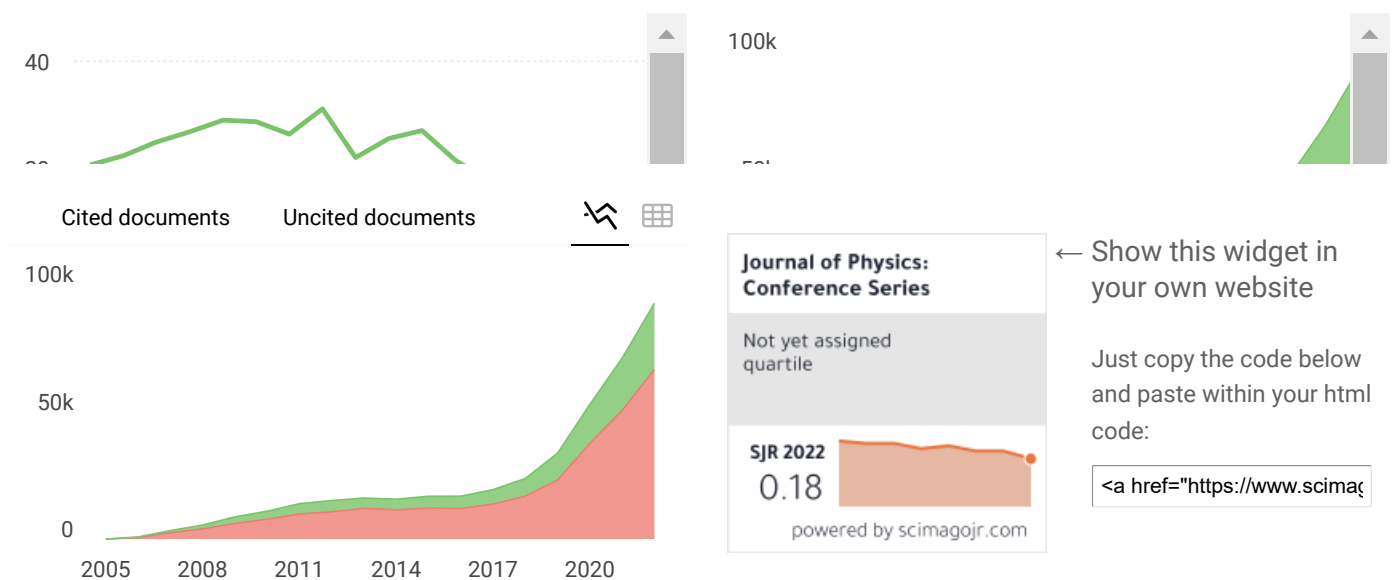
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Quartiles



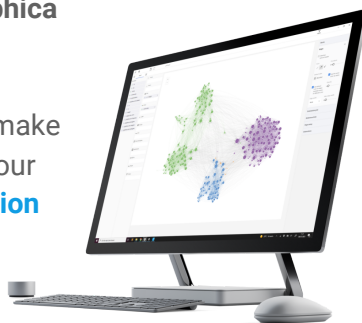
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K Kanchaya 9 months ago

Dear Sir

Could you let me know the quartile of Journal of physics: conferences series in 2021.
Was it the Q4 in 2021?

Best regards

reply

F Francisca 7 months ago

Why doesn't it have quartile 2021? in your answer below it refers to 2022 metrics but not to the 2021 quartile that should already be included.