ROYAL SOCIETY OF CHEMISTRY

Journal Publishing at the Royal Society of Chemistry

Guanqun Song (宋冠群)
Regional Publisher, Journals

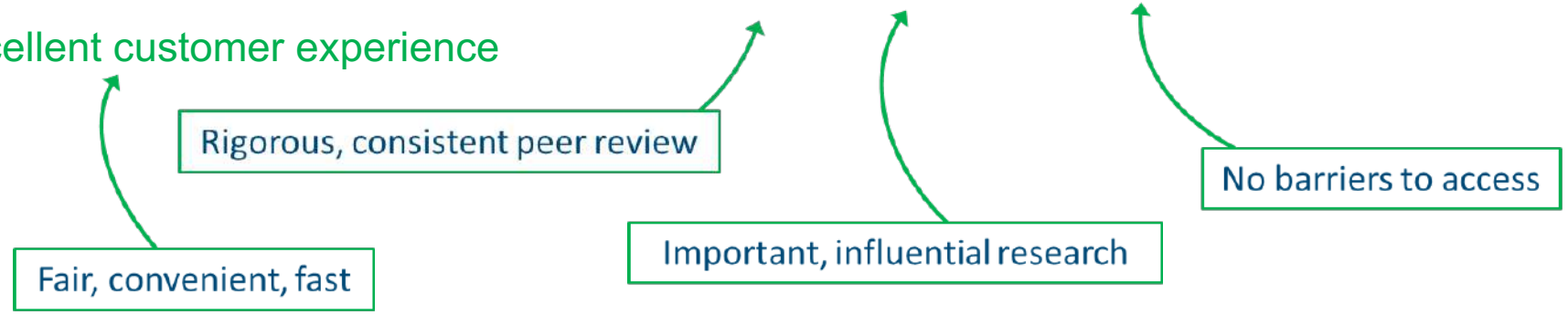
Outline

- Introduction to the Royal Society of Chemistry and the journals
- Publishing Tips
- Publishing Process
- Open Access and Licenses

Royal Society of Chemistry

We are a not-for-profit organisation with a reputation strengthened over two centuries, and a catalyst for the chemistry that enriches our world.

- We connect scientists with each other and society as a whole.
- Our purpose is to help the chemical science community make the world a better place
- We achieve this through Membership, Education, Policy and of course Publishing
- Our Publishing Strategy is to deliver high quality, impactful, accessible content and an excellent customer experience



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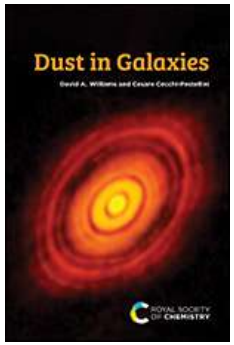
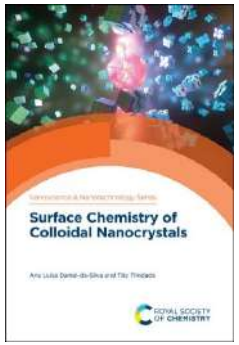
A global community

ROYAL SOCIETY OF CHEMISTRY

Leading International Publisher

Our publishing activities span books, e-books, journals, databases and magazines





THE MERCK INDEX* Online

CHEMISTRY WORLD

ChemSpider
Search and share chemistry

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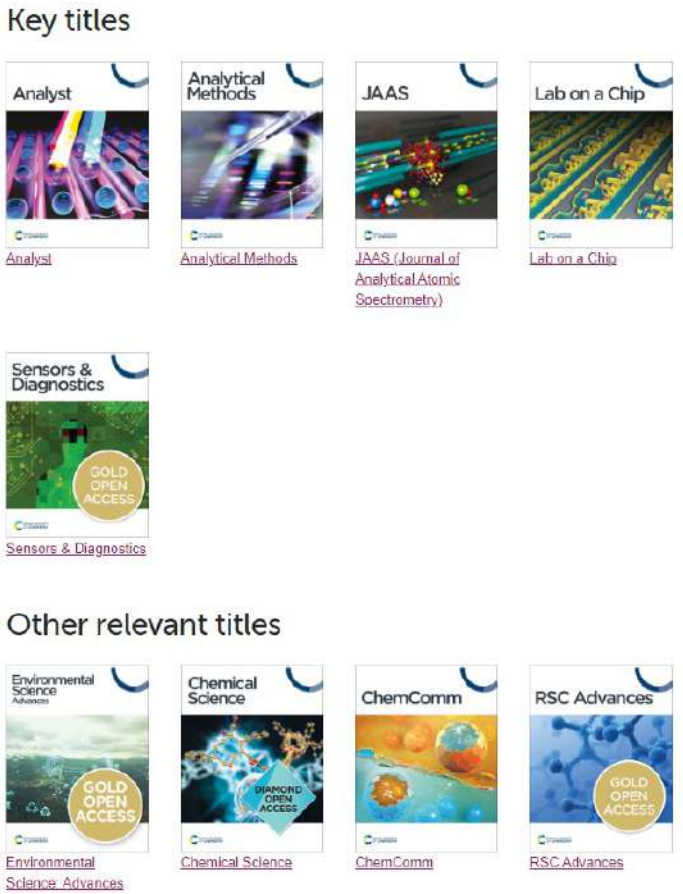
Our portfolio of journals

- Journal grouped by subject area
  - Key titles
  - Related titles



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Journal Metrics

Journal	Volume		Reach				Trust			
	Article submissions (2022)	Article publications (2022)	2-year Impact Factor (2022)	5-Year Impact Factor (2022)	CiteScore (2022)	Best Impact Factor Quartile (SCIE Category 2021)	Median time to first decision (all decisions)	Median time to first decision (peer-reviewed only)	Open access	Peer review model(s)
Energy Advances	355	82	n/a	n/a	0.7	n/a (n/a)	10	32	Gold	Single-anonymised
Energy & Environmental Science	4148	367	32.5	34.9	54.4	Q1 (Environmental Sciences)	13	46	Hybrid	Single-anonymised
EES Catalysis	112	n/a	n/a	n/a	n/a	n/a (n/a)	5	24	Gold	Single-anonymised, transparent
Green Chemistry	4833	778	9.8	9.8	16.4	Q1 (Green & Sustainable Science & Technology)	18	37	Hybrid	Single-anonymised
Industrial Chemistry & Materials	53	0	n/a	n/a	n/a	n/a (n/a)	5	22.5	Gold	Single-anonymised
Journal of Materials Chemistry A	10097	2162	11.9	11.6	22	Q1 (Energy & Fuels)	12	30	Hybrid	Single-anonymised

https://www.rsc.org/journals-books-databases/about-journals/metrics/

RSC Open Access Portfolio

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CCS 中国化学会 CHINESE CHEMICAL SOCIETY

The Frontiers Portfolio

■ China-led ■ Global vision ■ Society partnership

INORGANIC CHEMISTRY FRONTIERS

2022 IF 7.0

Inorganic Chemistry Frontiers publishes interdisciplinary research with significant inorganic chemistry advancements.

Partner with Peking University

Editor-in-Chief: Song Gao

ORGANIC CHEMISTRY FRONTIERS

2022 IF 5.4

Organic Chemistry Frontiers publishes significant research at the forefront of organic chemistry.

Partner with Shanghai Institute of Organic Chemistry

Editor-in-Chief: Shengming Ma

MATERIALS CHEMISTRY FRONTIERS

2022 IF 7.0

Materials Chemistry Frontiers publishes important research at the interface between chemistry and material science.

Partner with Institute of Chemistry, CAS

Editor-in-Chief: Shu-Hong Yu

更多信息：

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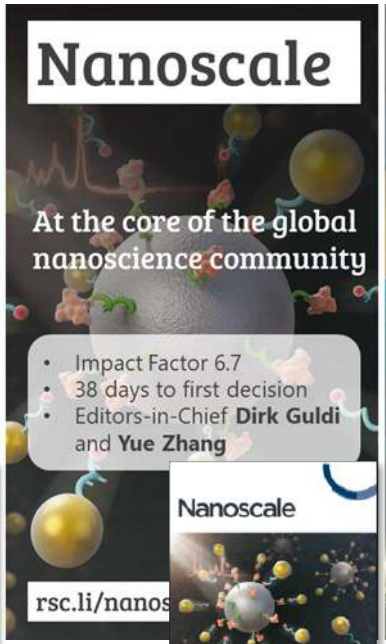
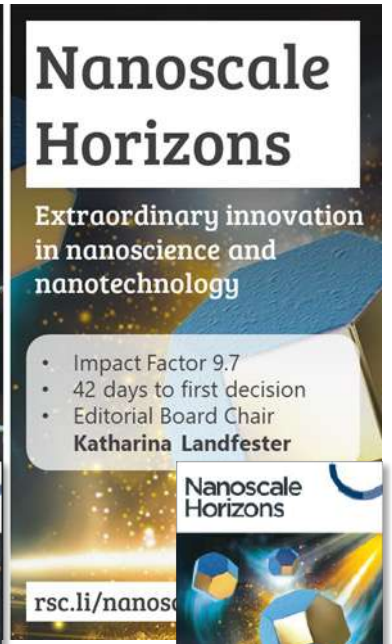
国家纳米科学中心
National Center for Nanoscience and Technology

Nanoscale Series Journals





更多信息：

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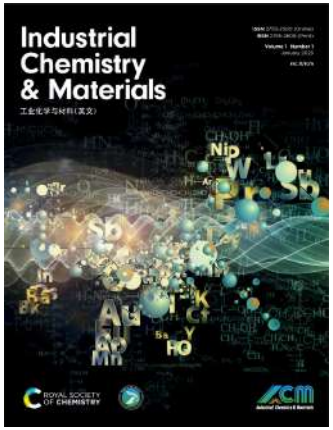
中国科学院过程工程研究所
Institute of Process Engineering, Chinese Academy of Sciences



Industrial Chemistry & Materials

Industrial Chemistry & Materials (ICM) focuses on the important innovation of the low-carbon chemical industry, energy and functional materials. By bringing researchers, engineers, and policymakers into one place, research is inspired, challenges are solved and the applications of science and technology are accelerated.

ICM features application-driven chemistry and functional materials innovation. We hope this journal will be the premier home for papers related to industrial chemistry and materials, with a vision of stimulating inspiration, solving problems, and accelerating the application of science and technology.

Professor Suojiang Zhang

The Editor-in-Chief of *Industrial Chemistry & Materials*

更多信息：

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About Publishing Tips

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Where to submit?

Key questions:

- Is my research ground-breaking or a useful advance?
- Who do I want to read my paper? Where do they publish?

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Submission checklist

1. Manuscript
2. Cover letter
3. Graphical abstract
4. Supplementary information (ESI)
5. Suggestions for suitable reviewers

- Always read the journal's author & ethical guidelines
- Check for other journal-specific guidelines (e.g. article types)

Writing the paper – key tips

The paper helps other researchers understand your work
Write it for them

Keep it simple
Don’t use overcomplicated words or explanations

Be concise
Don’t write more than you have to

Don’t assume the novelty/impact of the work is obvious
Highlight this in the abstract and main article

rsc.li/journal-resources

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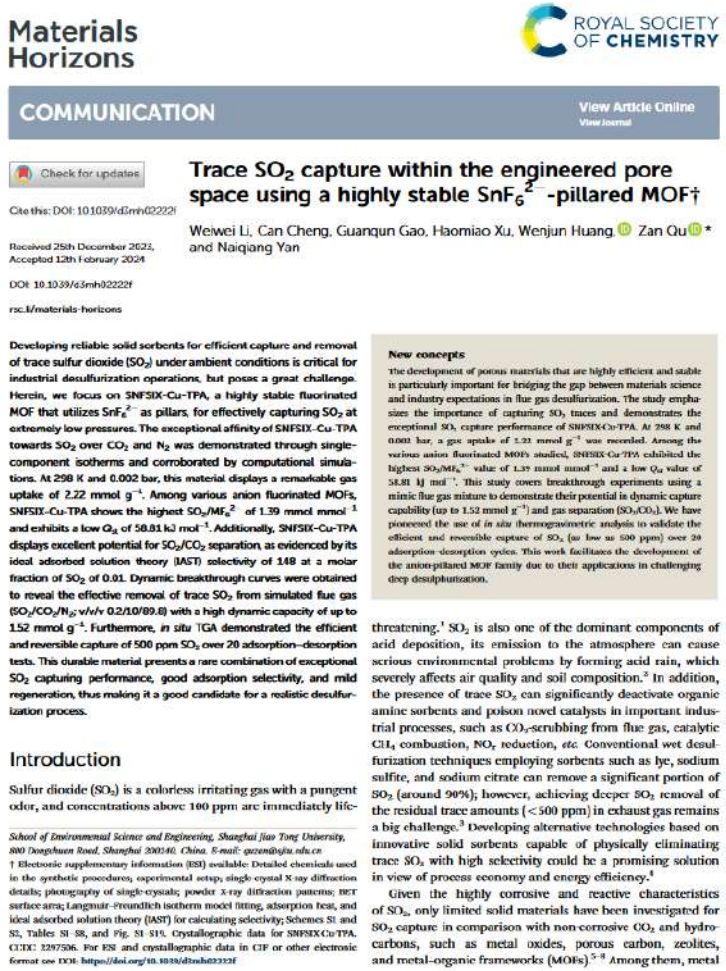
Writing the paper

- **Title**
- Authorship
- **Abstract**
- Introduction
- Results and Discussion
- Experimental
- Conclusions
- Acknowledgements
- References

- New concepts
- Author contributions



Materials Horizons

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COMMUNICATION

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Cite this: DOI: 10.1039/d3mh02222f

Received 25th December 2023,
Accepted 12th February 2024

DOI: 10.1039/d3mh02222f

rsc.li/materials-horizons

Trace SO_2 capture within the engineered pore space using a highly stable SnF_6^{2-}-pillared MOF†

Weiwei Li, Can Cheng, Guanqun Gao, Haomiao Xu, Wenjun Huang, Zan Qu* and Naiqiang Yan

Developing reliable solid sorbents for efficient capture and removal of trace sulfur dioxide (SO_2) under ambient conditions is critical for industrial desulfurization operations, but poses a great challenge. Herein, we focus on SNFSIX-Cu-TPA, a highly stable fluorinated MOF that utilizes SnF_6^{2-} as pillars, for effectively capturing SO_2 at extremely low pressures. The exceptional affinity of SNFSIX-Cu-TPA towards SO_2 over CO_2 and N_2 was demonstrated through single-component isotherms and corroborated by computational simulations. At 298 K and 0.002 bar, this material displays a remarkable gas uptake of 2.22 mmol g^{-1}. Among various anion fluorinated MOFs, SNFSIX-Cu-TPA shows the highest SO_2/MF_6^{2-} of 1.39 mmol mmol^{-1} and exhibits a low Q_{st} of 58.81 kJ mol^{-1}. Additionally, SNFSIX-Cu-TPA displays excellent potential for SO_2/CO_2 separation, as evidenced by its ideal adsorbed solution theory (IAST) selectivity of 148 at a molar fraction of SO_2 of 0.01. Dynamic breakthrough curves were obtained to reveal the effective removal of trace SO_2 from simulated flue gas ($SO_2/CO_2/N_2$: v/v/v 0.2/10/89.8) with a high dynamic capacity of up to 1.52 mmol g^{-1}. Furthermore, *in situ* TGA demonstrated the efficient and reversible capture of 500 ppm SO_2 over 20 adsorption–desorption tests. This durable material presents a rare combination of exceptional SO_2 capturing performance, good adsorption selectivity, and mild regeneration, thus making it a good candidate for a realistic desulfurization process.

New concepts

The development of porous materials that are highly efficient and stable is particularly important for bridging the gap between materials science and industry expectations in flue gas desulfurization. The study emphasizes the importance of capturing SO_2 traces and demonstrates the exceptional SO_2 capture performance of SNFSIX-Cu-TPA. At 298 K and 0.002 bar, a gas uptake of 2.22 mmol g^{-1} was recorded. Among the various anion fluorinated MOFs studied, SNFSIX-Cu-TPA exhibited the highest SO_2/MF_6^{2-} value of 1.39 mmol mmol^{-1} and a low Q_{st} value of 58.81 kJ mol^{-1}. This study covers breakthrough experiments using a mimic flue gas mixture to demonstrate their potential in dynamic capture capability (up to 1.52 mmol g^{-1}) and gas separation (SO_2/CO_2). We have pioneered the use of *in situ* thermogravimetric analysis to validate the efficient and reversible capture of SO_2 (as low as 500 ppm) over 20 adsorption–desorption cycles. This work facilitates the development of the anion-pillared MOF family due to their applications in challenging deep desulphurization.

Introduction

Sulfur dioxide (SO_2) is a colorless irritating gas with a pungent odor, and concentrations above 100 ppm are immediately life-threatening.[1] SO_2 is also one of the dominant components of acid deposition, its emission to the atmosphere can cause serious environmental problems by forming acid rain, which severely affects air quality and soil composition.[2] In addition, the presence of trace SO_2 can significantly deactivate organic amine sorbents and poison novel catalysts in important industrial processes, such as CO_2-scrubbing from flue gas, catalytic CH_4 combustion, NO_x reduction, *etc.* Conventional wet desulfurization techniques employing sorbents such as lye, sodium sulfite, and sodium citrate can remove a significant portion of SO_2 (around 90%); however, achieving deeper SO_2 removal of the residual trace amounts (<500 ppm) in exhaust gas remains a big challenge.[3] Developing alternative technologies based on innovative solid sorbents capable of physically eliminating trace SO_2 with high selectivity could be a promising solution in view of process economy and energy efficiency.[4]

Given the highly corrosive and reactive characteristics of SO_2, only limited solid materials have been investigated for SO_2 capture in comparison with non-corrosive CO_2 and hydrocarbons, such as metal oxides, porous carbon, zeolites, and metal–organic frameworks (MOFs).[5–8] Among them, metal

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† Electronic supplementary information (ESI) available: Detailed chemicals used in the synthetic procedures; experimental setup; single crystal X-ray diffraction details; photography of single crystals; powder X-ray diffraction patterns; BET surface area; Langmuir–Freundlich isotherm model fitting, adsorption heat, and ideal adsorbed solution theory (IAST) for calculating selectivity; Schemes S1 and S2, Tables S1–S8, and Fig. S1–S19. Crystallographic data for SNFSIX-Cu-TPA. CCDC 2297506. For ESI and crystallographic data in CIF or other electronic format see DOI: https://doi.org/10.1039/d3mh02222f

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Title and abstract

Why are these so important?

- There are many more papers than you can read
- How do you find articles and choose what to read?

A good title and abstract will:

- Help readers find your article in searches
- Help readers decide if your article is suitable for them

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Image: Taking the online medicine. *The Economist*, Mar 19, 2016.

Title – be discoverable

- Keywords (think search terms)
- Informative
- Emphasise the most interesting parts
- Short and straightforward

- Avoid abbreviations, specific nomenclature and terms such as ‘novel’


COMMUNICATION

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Cite this: DOI: 10.1039/c5cc09951j

Received 3rd December 2015,
Accepted 5th January 2016

Durable and self-healing superamphiphobic coatings repellent even to hot liquids†

Bucheng Li and Junping Zhang*

‘Fabrication of superamphiphobic coatings under PAL, 1H,1H,2H,2H-perfluorodecyltriethoxysilane and tetraethoxysilane

‘Novel superamphiphobic coatings’

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Abstract

Purpose

- Helps readers find articles via searches
- Helps readers decide whether your article is of interest to them
- Helps editors analyse content of paper

There are two abstracts – one for the article, one for the table of contents

ChemComm

COMMUNICATION

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Check for updates

Cite this: *Chem. Commun.*, 2023, 59, 12739

Single crystal formation in core–shell capsules†

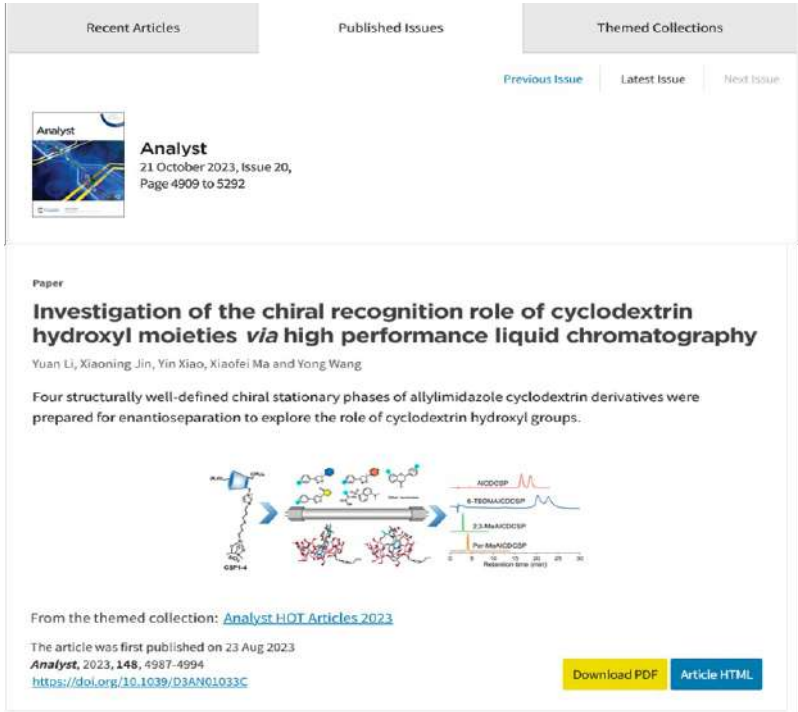
Marie Mettler,[a] Adrien Dewandre,[a] Nikolay Tumanov,[b] Johan Wouters[b] and Jean Septavaux *[a]

This work extends the scope of microfluidic-based crystallization methods by introducing solid microcapsules. Hundreds of perfectly similar microcapsules were generated per second, allowing a fastscreening of crystallization conditions. XRD analyses were per-formed directly on encapsulated single crystals demonstrating the potential of this process for the characterization of compounds,including screening polymorphism

✓ Set objectives

✓ Show findings

✓ Emphasise significance



✓ Focus on the most significant part
✓ Clear representation of research
✓ Avoid too much text

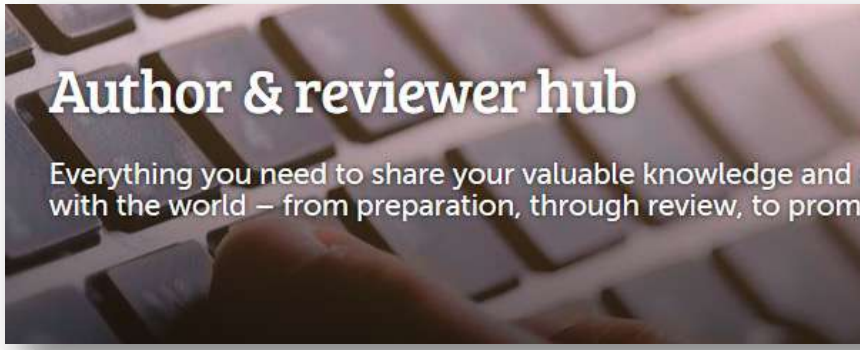
Effective figures, tables and graphics

- Best way to present results
- Clear yet informative
- Details in captions and legends
- Use colour – it’s free!

Tips for the cover letter

- To include:
  - ✓ Article type / themed issue
  - ✓ Summary of work
  - ✓ Statement of importance/novelty
  - ✓ Impact on community
  - ✓ Future potential
- Address to the Editor / Associate Editor
- Correct journal!
- Suggest suitable reviewers
- Don’t copy the Abstract

Writing the Paper



Author information

Reviewer information

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- Peer reviewer information
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Check this page for policy information, and to see the data you should include for specific experiment types.

Experimental data policy

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ChemRxiv partnership

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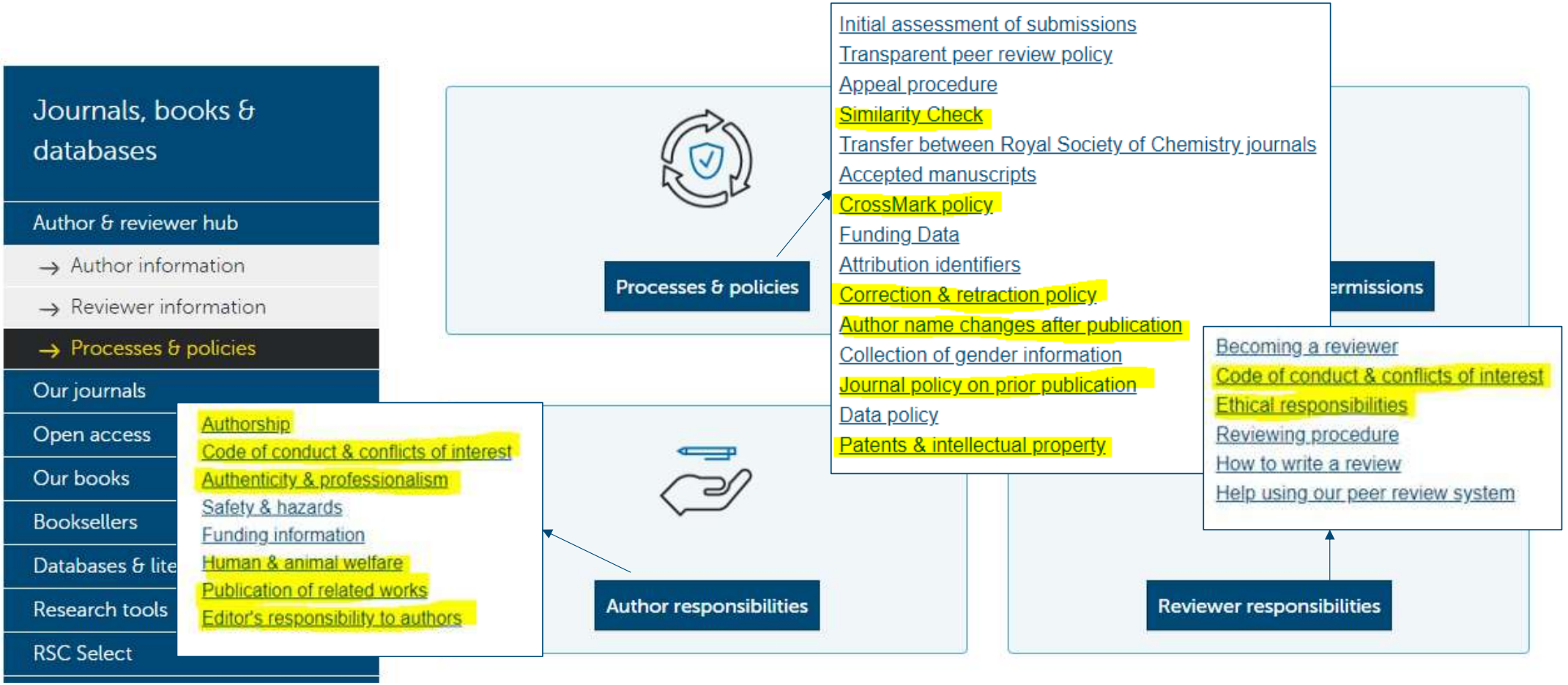
Online IDs



www.rsc.org/journals-books-databases/author-and-reviewer-hub/

About Publishing Process

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Peer review models

Single-anonymised

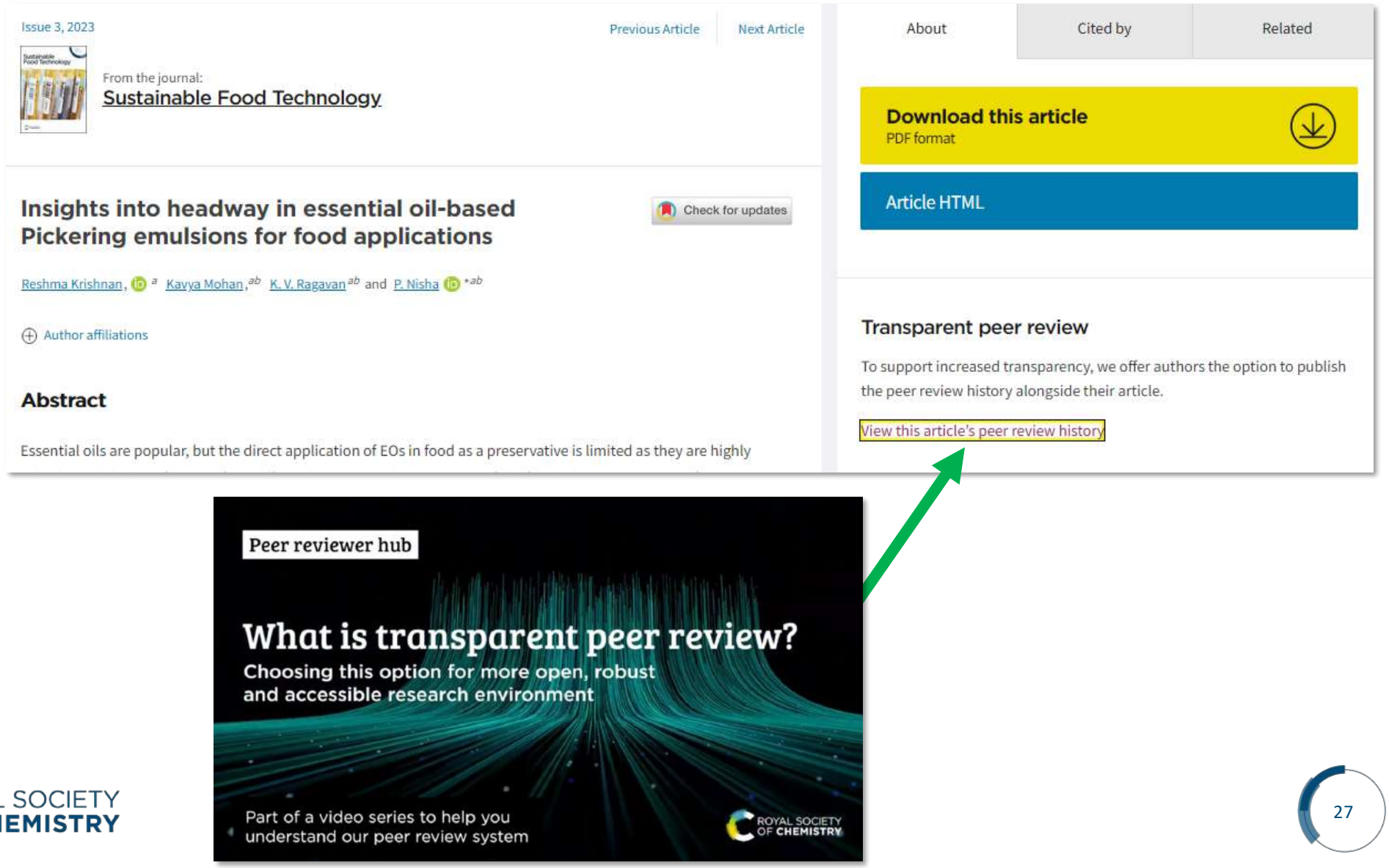
- Traditional peer review model
- Reviewer(s) anonymous
- Author(s) name and affiliation are on the manuscript

Transparent (open)

- Editor's decision letter, reviewers' comments and authors' response published alongside the article
- Option on *RSC Chemical Biology* and *Environmental Science: Atmospheres*

Double-anonymised

- Reviewer(s) anonymous
- Author(s) anonymous
- An option on some of our journals


Issue 3, 2023
Previous Article
Next Article
From the journal:
Sustainable Food Technology
Insights into headway in essential oil-based Pickering emulsions for food applications
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Reshma Krishnan, [a] Kavya Mohan, [ab] K. V. Ragavan [ab] and P. Nisha [*ab]
Author affiliations
Abstract
Essential oils are popular, but the direct application of EOs in food as a preservative is limited as they are highly
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Choosing this option for more open, robust and accessible research environment
Part of a video series to help you understand our peer review system
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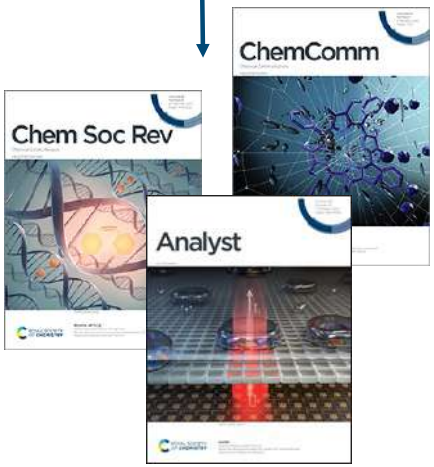
Peer review

Editorial office
(professional editors)

Hybrid
(both)



Associate editors
(active researchers)

Peer review

Selecting a reviewer:

Specialist knowledge

Speed / reliability / accuracy

Questions for reviewers:

Correct experimental work?

Novelty and impact

Suitability for publication in the journal

Make recommendation

Reviewer recognition

- We partner with Web of Science's Reviewer Recognition Service across all our journals
- A single, verified record of all your reviewing activity
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Also…

- 25% discount on all RSC books
- Annual *Outstanding Reviewers*


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Outstanding Reviewer 2021

This is to certify that

has been recognised by the editors as an Outstanding Reviewer for **Journal of Materials Chemistry A** in 2021.

Thank you for your contribution to the journal.

Transfers

Our aim is to find a suitable home for your research

Saves work for reviewers and editors (we share reports)

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- Know when it’s with reviewers
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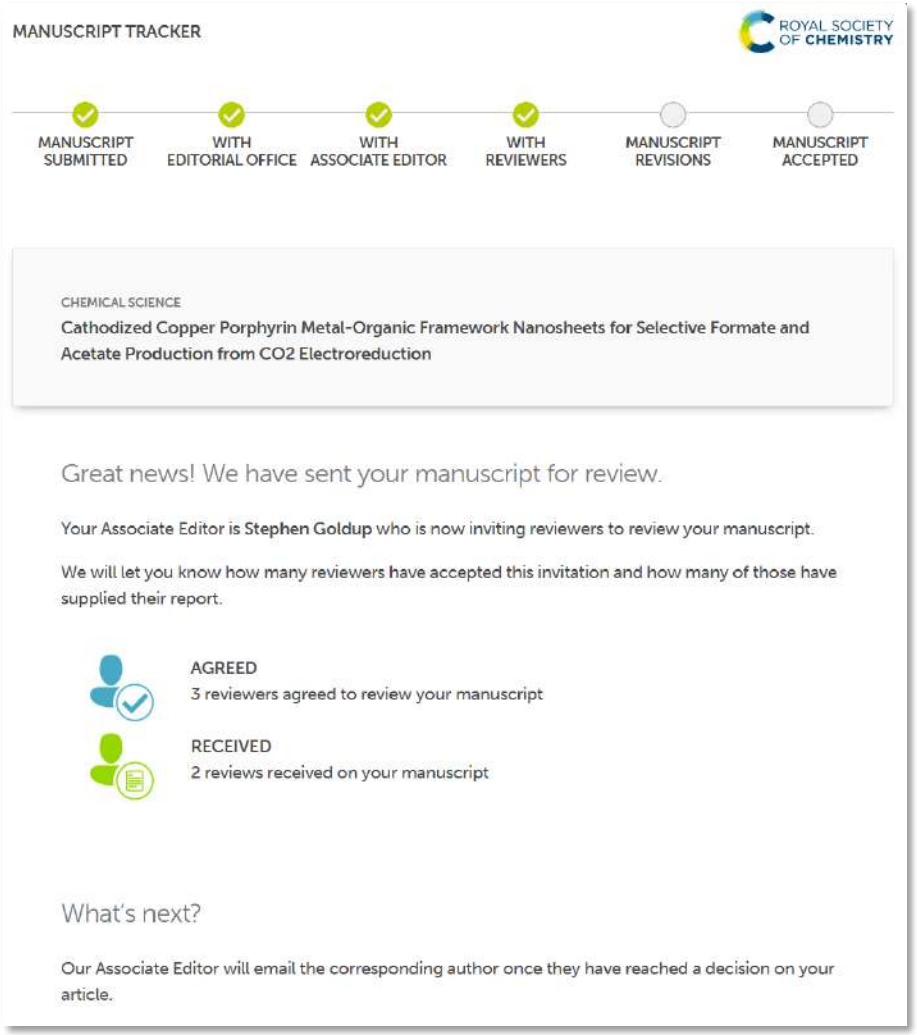

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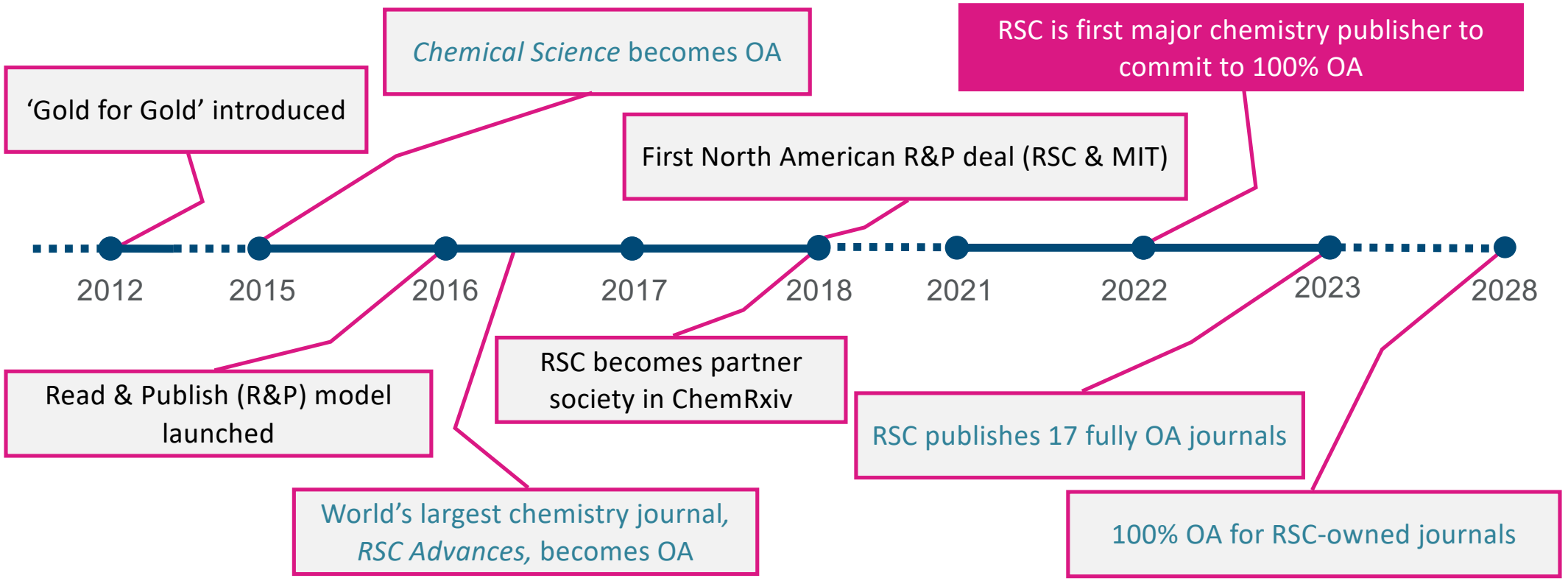
Open Access and Licenses

RSC Open Access Timeline



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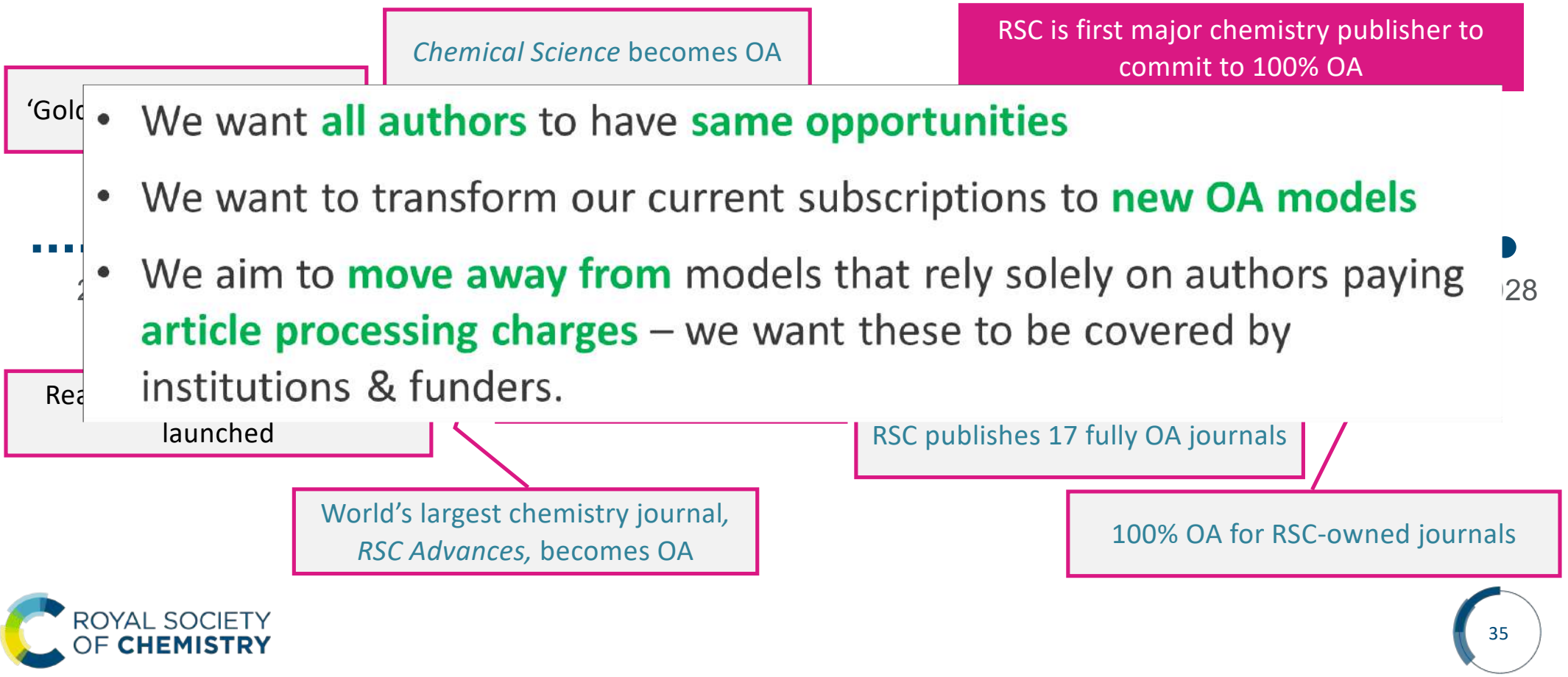
RSC Open Access Timeline



- We want **all authors** to have **same opportunities**
- We want to transform our current subscriptions to **new OA models**
- We aim to **move away from** models that rely solely on authors paying **article processing charges** – we want these to be covered by institutions & funders.

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Why does the RSC require licenses to publish?

The RSC must acquire the necessary legal rights from the authors in order to publish their materials.

The RSC must obtain from the original authors the right to publish the material in all formats, with the right to **sublicense** those rights.

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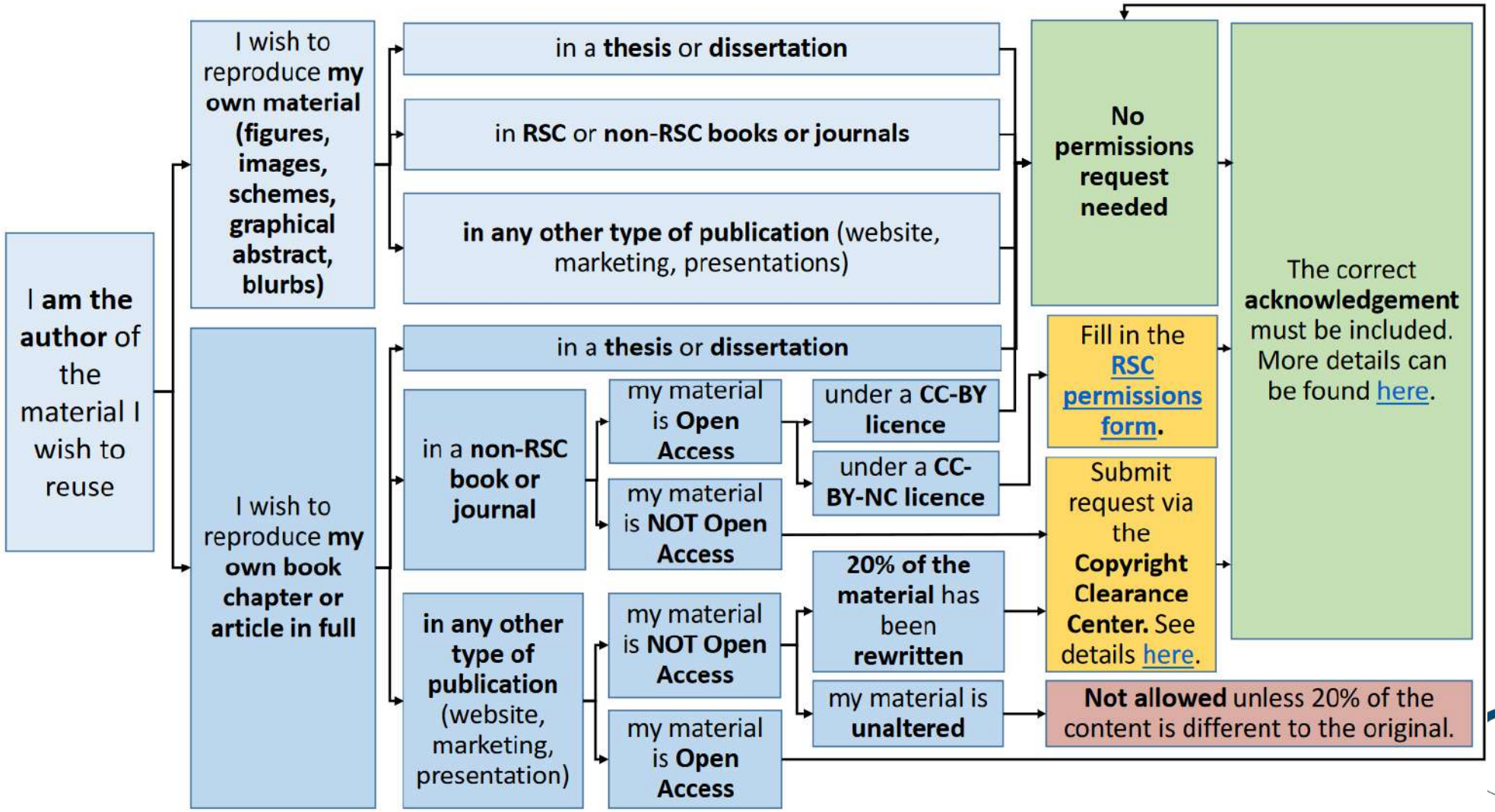

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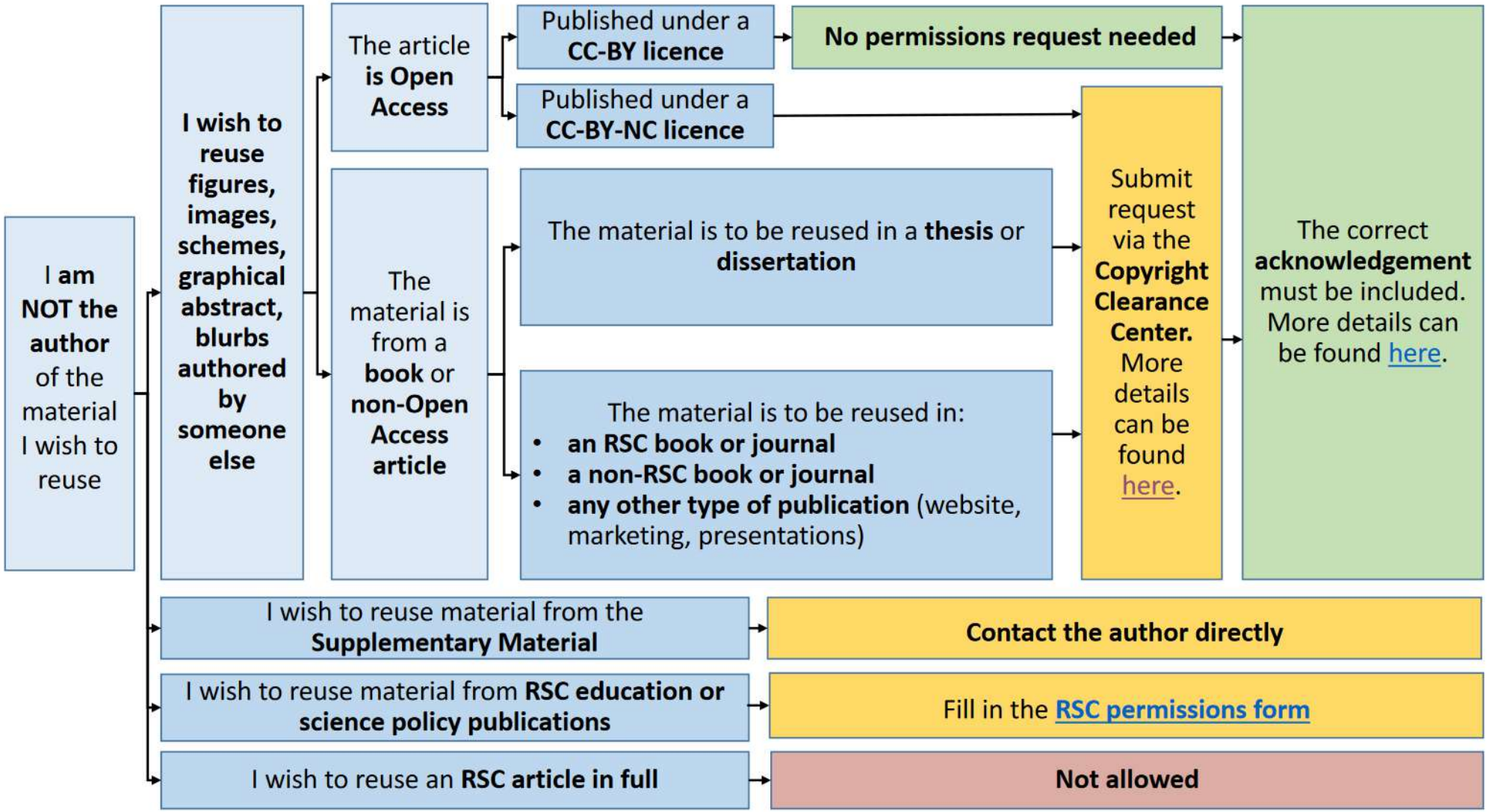

Thank you for your kind attention!

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