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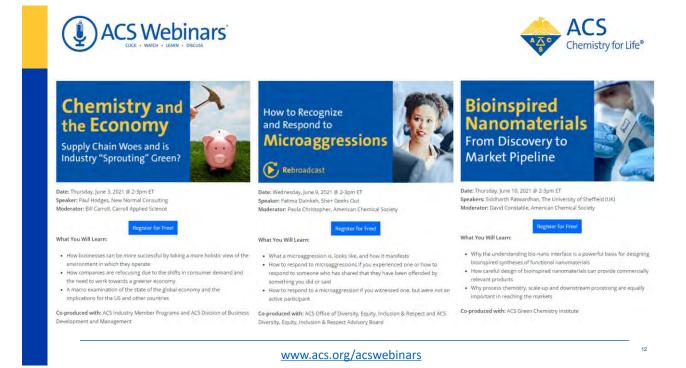
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Artificial Intelligence in Chemistry: Current Trends and Future Opportunities









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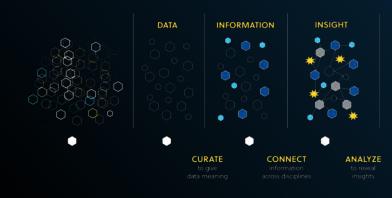
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CAS scientists curate, connect, and analyze scientific knowledge





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Expert Panelists & Moderator



James Collins Professor of Med Engineering & Science, Biological Engineering, MIT



Jurgen Cox Professor, Max Planck Institute of Biochemistry



Yugal Sharma Senior Director, CAS Custom Services

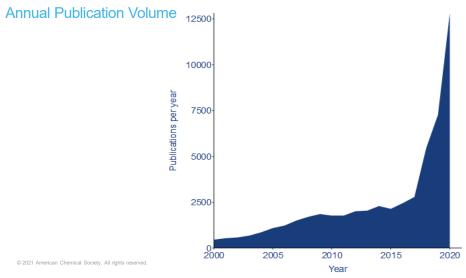


Angela Zhou (Moderator) Information Scientist CAS



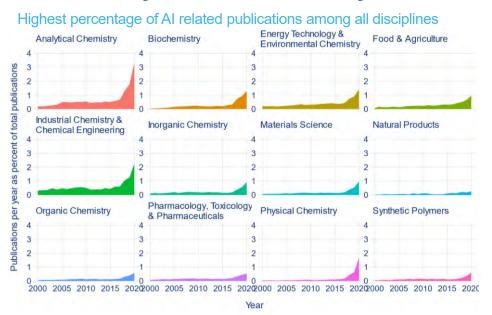
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Al-related journal publications has grown exponentially since 2015





Yet, analytical chemistry leads the way

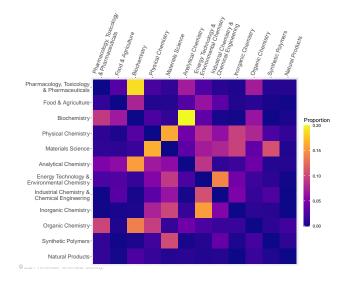






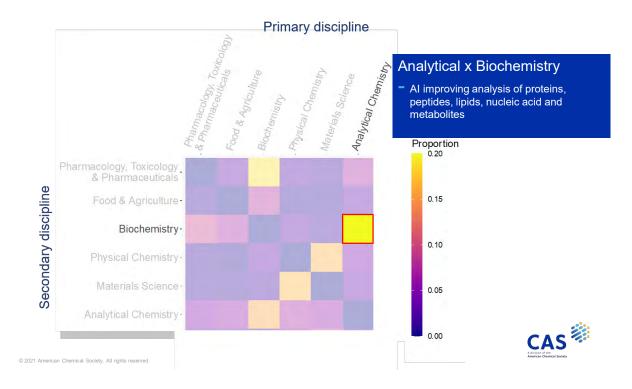
Al is enabling interdisciplinary research

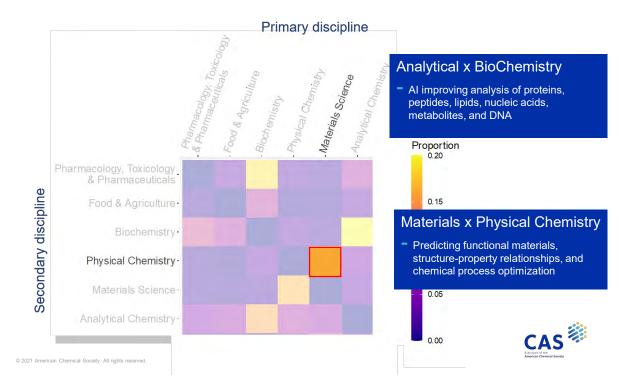
Cross referencing relevant overlap between disciplines

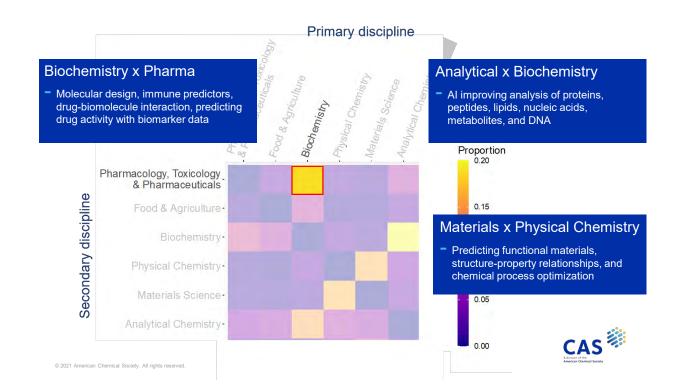


CAS scientists categorize each publication and cross references it with related disciplines







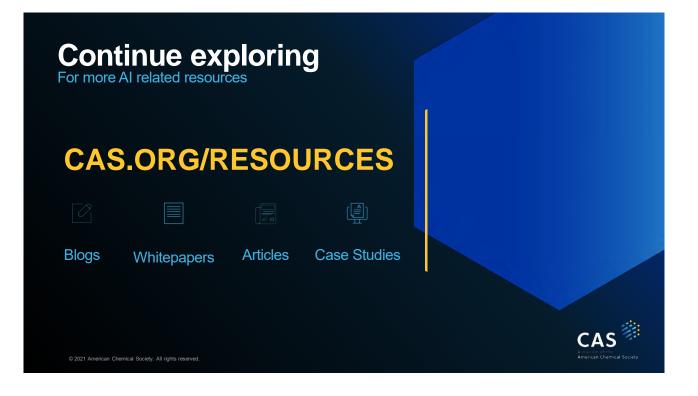




- Lack of clear strategy
- Insufficient investment
- Insufficient data availability
- Talent gaps in data science
- Organizational culture

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Artificial Intelligence in Chemistry

Current Trends and Future Opportunities



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CS Webinars



Chemistry and the Economy

Supply Chain Woes and is Industry "Sprouting" Green?

Date: Thursday, June 3, 2021 @ 2-3pm ET Speaker: Paul Hodges, New Normal Consulting Moderator: Bill Carroll, Carroll Applied Science

What You Will Learn:

How businesses can be more successful by taking a more holistic view of the environment in which they operate

Register for F

- · How companies are refocusing due to the shifts in consumer demand and
- the need to work towards a greener economy · A macro examination of the state of the global economy and the
- implications for the US and other countries

Co-produced with: ACS Industry Member Programs and ACS Division of Business Co-produced with: ACS Office of Diversity, Equity, Inclusion & Respect and ACS evelopment and Management

How to Recognize and Respond to Microaggressions

Rebroadcast

Date: Wednesday, June 9, 2021 @ 2-3pm ET Speaker: Fatima Dainkeh, She+ Geeks Out Moderator: Paula Christopher, American Chemical Society

What You Will Learn:

- · What a microaggression is, looks like, and how it manifests How to respond to microaggressions if you experienced one or how to respond to someone who has shared that they have been offended by
- something you did or said · How to respond to a microaggression if you witnessed one, but were not an
- active participant

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Bioinspired Nanomaterials From Discovery to Market Pipeline



Date: Thursday, June 10, 2021 @ 2-3pm ET Speakers: Siddharth Patwardhan, The University of Sheffield (UK) Moderator: David Constable, American Chemical Society



- · Why the understanding bio-nano interface is a powerful basis for designing bioinspired syntheses of functional nanomaterials
- · How careful design of bioinspired nanomaterials can provide commercially relevant products
- · Why process chemistry, scale-up and downstream processing are equally important in reaching the markets

Co-produced with: ACS Green Chemistry Institute





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