

Joseph E. Sabol, Ph.D.

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Education and Training

Carroll College (now **Carroll University**), Waukesha, Wisconsin. B.S., Chemistry, 1971-75.

Oklahoma State University, Stillwater, Oklahoma. Ph.D., Chemistry, 1977-82.

Dissertation: Fluorescence Quantum Yields by Low-Level Luminescence Quenching.

University of Minnesota, Minneapolis, Minnesota. Postdoctoral, Chemical Engineering, 1982-86.

University of Wisconsin, Madison, Wisconsin. Geology/Electron Microprobe Analysis, 1996.

Appointments

Joseph Sabol, Chemical Consultant, Racine, Wisconsin. Principal-Consultant, 1999-present.
Contract chemical research and business development. <https://chem-consult.com>

American Chemical Society, Washington DC. <https://www.acs.org/about/governance.html>

- Committee on Environmental & Sustainability. Review, advise, and recommend action on matters involving the chemical sciences and the environment. 2022-2028.
- Committee on Chemistry and Public Affairs. Review, advise, and recommend ACS action on matters involving the chemical sciences and public/government affairs. 2014-2021.
- Upper Peninsula Local Section. Activities to advance the chemical sciences in the Michigan Upper Peninsula. Treasurer, 2008-2027. <https://acsupls.wordpress.com/>
- Great Lakes Region. Meetings and awards in the chemical sciences among 20 ACS local sections. Director, 2011-2026; Treasurer, 2019-2025. <https://greatlakesregion-acs.org/>
- Division of Small Chemical Businesses. Activities for start-ups and small businesses in the chemical sectors. Program Chair, 2008-2022; Councilor, 2014-2024. <https://acs-schb.org>

Local Emergency Planning Committee, Marquette, Michigan. Review of facilities that utilize hazardous substances, emergency response procedures, and hazardous material release reports. Member, 2003-2026; Chair 2017-2026. <https://www.co.marquette.mi.us/index.php>

Publications (<https://orcid.org/0000-0002-8556-4774>)

Correlation between magnetism and the Verwey transition in magnetite, Karolina Podgórska, Mateusz A. Gala, Kamila Komędera, N. K. Chogondahalli Muniraju, Serena Nasrallah, Zbigniew Kąkol, Joseph Sabol, Christophe Marin, Adam Włodek, Andrzej Kozłowski, J. Emilio Lorenzo, Neven Barišić, Damian Rybicki, and Wojciech Tabiś. *Physical Review B*, **111**, 245161 (2025). <https://doi.org/10.1103/yn1s-3hv3>

Preface to the Special Issue In Honor of Dr. E. Gerry Meyer, Joseph Sabol, William Carroll, and Jingbo L. Liu, *Catalysis Today*, **374**, (2021). <https://doi.org/10.1016/j.cattod.2021.01.003>

The effect of doping on global lattice properties of magnetite $\text{Fe}_{3-x}\text{M}_x\text{O}_4$, (M = Zn, Ti and Al). Z. Kąkol, D. Owoc, J. Przewoźnik, M. Sikora, C. Kapusta, D. Zajac, A. Kozłowski, J.E. Sabol, J.M. Honig. *Journal of Solid State Chemistry* **192** 120–126 (2012).
<https://dx.doi.org/10.1016/j.jssc.2012.04.001>

Magnetic AC susceptibility of stoichiometric and low zinc doped magnetite single crystals. M. Balanda, A. Wiecheć, D. Kim, Z. Kąkol, A. Kozłowski, P. Niedziela, J. Sabol, Z. Tarnawski and J.M. Honig. *European Physical Journal: Solid and Condensed State Physics* **43B**, 201 (2005).
<http://link.springer.com/article/10.1140/epjb/e2005-00043-5>

Activity of HF solutions and particle removal using HF solutions. S. Nelson, J. Sabol, and K. Christenson. *Proceedings of the Electrochemical Society* **PV 2001-26**, 164 (2001).
<https://iopscience.iop.org/journal/2576-1579/page/PV2001>

Powder neutron diffraction studies of Zn-doped magnetite. A. Kozłowski, Z. Kąkol, R. Zalecki, K. S. Knight, J. Sabol, and J. M. Honig. *Journal of Physics: Condensed Matter* **11**, 2749 (1999).
<https://iopscience.iop.org/article/10.1088/0953-8984/11/13/011>

Influence of titanium doping on the magnetocrystalline anisotropy of magnetite. Z. Kąkol, J. Sabol, J. Stickler, A. Kozłowski, and J. M. Honig. *Physical Review* **B49**(18), 12767-12772 (1994).
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.49.12767>

Electrical conduction in single-crystal $\text{Fe}_{3-y}\text{Ti}_y\text{O}_4$ ($0 < y < 0.9$). A. Kozłowski, R. Rasmussen, J. Sabol, P. Metcalf, and J. M. Honig. *Physical Review* **B48**(4), 2057-2062 (1993).
<https://doi.org/10.1103/PhysRevB.48.2057>

Effect of low-level titanium(IV) doping on the resistivity of magnetite near the Verwey transition. Z. Kąkol, J. Sabol, J. Stickler, and J. M. Honig. *Physical Review* **B46**, 1975-1978 (1992).
<https://doi.org/10.1103/PhysRevB.46.1975>

Funding/R & D Leadership

Current advisor on a Navy SBIR project, previous advisor on NSF and DOE SBIR proposals. Private client activity is confidential business information; non-confidential details upon request.

Synergistic Activities

1) Organizer of symposia at technical conferences; 2) Service on ACS Committees; 3) Chair of Marquette [MI] County Local Emergency Planning Committee; 4) Treasurer/fiduciary for two ACS units; 5) Service on NSF 2020 Chemical, Bioengineering, Environmental, and Transport Systems review panel.

Mentoring

Attendees at conferences include a substantial number of students and postdoctoral scholars. Organizing and speaking at conferences conveys positive information to the broader community.