

CURRICULUM VITAE

Igor I. Mazin

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	Department of Physics & Astronomy and Quantum Science & Engineering Center George Mason University 4400 University Drive Fairfax, Virginia 22030	
Nationality	USA	
Research Statistics	<u>Publications/in press</u> : ~350 PRL/PRX/Science/Nature Group & other high impact (IF>7): 78, <u>Citations (Web of Science)</u> : ~24000. Average citations per paper: ~76 <u>h-index</u> : 79 ; <u>l-index</u> : 55 (# of papers cited more than 100 times) <u>m-index</u> : 1.7 (h/# of years since first publication) <u>Invited conference talks</u> : > 80, of them <u>invited APS/ACS/MRS talks</u> : 10	
Employment	1977-1983 Staff member, Baikov Institute of Metallurgy, Moscow 1984-1993 Staff member, Lebedev Physical Institute, Moscow 1991-1994 Staff member, Max-Planck-Institut für Festkörperforschung, Stuttgart 1994-1996 Senior Research Associate, Geophysical Laboratory, Carnegie Institution of Washington 1996-1998 Visiting Researcher, George Mason University 1998-2002 Research Physicist, grade NP-III, Naval Research Laboratory 2002-2019 Research Physicist, grade NP-IV, Naval Research Laboratory 2019- Professor of Advanced Studies, George Mason University	
Education	1971-1977	Moscow Institute for Steel and Alloys,
	1977	Diploma: <i>On the possibility of high temperature superconductivity in transition metals due to acoustic plasmons</i>
	1979-1983	Ph.D. student, P.N. Lebedev Physical Institute
	1984	Ph.D in theoretical physics,
		Thesis: <i>Microscopical calculations of the phonon-limited resistivity of 4-d metals</i>
Honors, Awards	1989	USSR Prize for Young Scientists
	1989-1990	A. von Humboldt Fellowship
	1997, 2005, 2008, 2018	Alan Berman best publication award (NRL)
	2004	Fellow of American Physical Society
	2005, 2016	Alan Berman best postdoctoral publication award (NRL, as an adviser)
	2007	Sigma Xi (NRL Chapter) Pure Science Award
	2008	APS Outstanding Referee Award
	2008, 2017	Nature Publishing Group Editor in Chief Letter of Recognition for Exceptional Referee Service
	2018	John Bardeen Prize for <i>'Theoretical work that has provided significant insights on the nature of superconductivity and has led to verifiable predictions'</i>
	2014, 2018, 2019	Included in the Clarivate Analytics (Web of Science) list of

		Highly Cited Researchers (top 1% in each field)
	2018	Heraeus Research Award, Germany
Service	1986-1988	A secretary of the Moscow Theoretical Physics Seminar ('Ginzburg Seminar')
	2004, '07, '09, '13	Focus Topic organizer for the APS March meetings
	2006	Theory Panel leader of the DOE workshop "Basic Research Needs for Superconductivity" and co-writer of the Final Document (http://www.er.doe.gov/bes/reports/abstracts.html#SC).
	2007, 2009	Guest editor of special issues of <i>Physica C</i> ('08, '09) and <i>Advanced Materials</i> ('09)
	2009-2016	Member of the Editorial Board, <i>Phys. Rev. B</i>
	2016-2022	Member of the Editorial Board, <i>Phys. Rev. X</i>
	2016-current	Member of the Editorial Board, <i>Nature partner journal Quantum Materials</i>
		One of the lead organizers of nine international conferences. Member of organizing or advisory committees of multiple conferences.

Students advised (since 2020, after joining GMU)

1. Jaafar Ansari, co-advised with Prof. Karen Sauer, P&A. Graduated in 2024; 6 publications
2. Bishal Thapa, co-advised with Prof. Maria Emelianenko, Math, expected graduation 2026; 3 papers, two in preparation
3. Gunnar Schwertfeger, co-advised with Prof. Predrag Nikolic, P&A. Expected graduation 2027. One publication in preparation
4. Tu Cao, undergraduate student. One publication.

Funding (since 2020, after joining GMU)

Source	Brief title	period	amount
ONR	Ising Superconductivity	2020/04 - 2023/04	\$448,548
DoE	Topological phenomena	2020/09 -2022/09	\$239,952
NSF	EAGER:: Ab initio engineering of superconductors	2021/09 - 2023/08	\$73,053

NSF	Zero field nuclear magnetic resonance	2022/9 – 2025/8	\$280,336 *
NSF	Ab initio engineering of superconductors	2024/9-2026/8	\$200,000
NSF	Frustrated magnets	2024/4-2027/3	\$248,480
ONR	2D quantum systems	2023/5-2026/4	\$444,562
ARO	Novel altermagnetic materials	2022/8-2025/7	\$249,152 *

* (my share as a co-PI)