CURRICULUM VITAE OF VICTOR MALKA

PERSONAL INFORMATION

Family name, First name: Malka, Victor

Researcher unique identifier(s): https://orcid.org/0000-0002-0488-2587

Date of birth: 11/12/1960, born in Casablanca (Morocco). Nationality: French & Israeli

Married. Two daughters born in 2000 & 2002 https://www.weizmann.ac.il/complex/malka/

EDUCATION

1998	HDR	(Habilitation à Diriger la Recherche)

1990 PhD Thesis in atomic physics at LULI (physic of University of Paris XI-Orsay)

MSc in physics of University of Orsay-Paris XI

1984 ENSCR (Ecole Nationale Supérieure de Chimie de Rennes)

> CURRENT POSITION

2019 – Present Professor at the Physics Faculty of the Weizmann Institute of Science (WIS), Israel

2023 – Present Scientific Deputy Director at ELI-NP, Magurele, Romania

> PREVIOUS POSITIONS

2020 to 2021	Visiting Professor at HZDR Dresden (Humboldt Research Awards)
2001 to 2019	Moved to LOA (mixt research unit of CNRS/Polytechnique/ENSTA

2013 to 2015 Professor at Ecole Polytechnique (12 years contract in addition to the CNRS position)
1990 to 2021 Permanent CNRS researcher at LULI (DR2 in 2003, DR1 in 2009, DRCE in 2016)

> SCIENTIFIC PRODUCTIVITY

380 Publications, 264 in refereed journal (38 PRL, 3 Nature, 5 Nature Physics, 1 Science, 4 Nature Photonics, 5 Nature Communication, 1 Rev. of Modern Physics, 4 Optics Letters, 7 PRE, 27 Phys. Plasmas, 15 NJP, 2 RSI, 7 PRS-TA, 8 IEEE, etc...). Number of citations 15,973 (24,600), Hirsch factor 59 (75) from ISI-WoS (Google Scholar) in January 2024. 212 invited international conferences (more than 50 in plenary session including SPIE, APS, EPS, IPAC, OASIS), 101 invited seminaries (72 international, 29 national). 4 book chapters. 6 patents.

> FELLOWSHIPS AND AWARDS (selection)

2022	Laureat of the European Innovation Council with the project EBEAM4THERAPY
2022	Laureat of the European Innovation Council with the project EBEAM41 HERAP I

2019 Humboldt Research Awards

2019 Alfven Prize of the European Physical Society

2018 Officer of the Physics Division of the European Academy of Sciences

2017 Julius Springer Prize

2017 Holweck Prize from the French Physical Society and from the Institute of Physics

2017 QEOD Prize from the European Physical Society

2017 Member of the European Academy of Sciences

2016 EPS Fellow

2015 Batsheva de Rothschild Fellow

2013 Laureat of the European Research Council (AdG de l'ERC) with the project X-5

Foreign Honorary Member of the Romanian Academy of Science (AOSR)

2009 Grand prix de l'Etat de l'Académie des Sciences

Laureat of the European Research Council (AdG de l'ERC) with the project PARIS

2008 Prix du magazine la Recherche

Fellow of the American Physical Society

2007 IEEE/NPSS Particle Accelerator Science and Technology Award

> SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1998– Present 20 Postdocs/ 24 PhD Students/ 16 Master Students.

> TEACHING ACTIVITIES

2019 - 2019	Professor at the Weizmann Feinberg Graduate School
2012 - 2019	Professor at Master of Grands Instruments and of Master on Fusion

2009 – 2013 Visiting Professor at Tata Institute of Mumbai in India (2 weeks/year)

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2003 - 2015
                 Professor at Ecole Polytechnique (12 years contract, 96 hours/year)
> ORGANISATION OF SCIENTIFIC MEETINGS (selection)
2017 – 2022
                 Organiser of « CHILI » international conferences on high field laser matter interaction, Israel
                 Organiser of « Frontiers in Laser Sciences » conference at WIS, Israel
2018
                 Organiser of the « Medical applications with laser plasma accelerators » symposium, Berlin
2017
                 Organiser of the International Workshop on Laser Plasma Accelerators in Guadeloupe, France
2015
                 Organiser of colloquium on New Technologies in Cancer Research, Beijing, China
2012
> INSTITUTIONAL RESPONSIBILITIES (selection)
                 Member of the Large Equipment Committee at WIS
2019 - 2023
2019 - 2023
                 Member of the V7 Hiring Professor Committee at WIS
2002 - 2019
                 Member of LOA scientific Council (Ecole Polytechnique, France)
> REVIEWING/EDITORIAL/EXPERTISE ACTIVITIES (selection)
                 Member of the Organizing Committee AAC
2023 – Present
2022 - Present
                 Member of Scientific Advisory Board of HZDR
2020 - Present
                 Editorial Board of PRX (American Physical Society)
                 Member of the Program Scientific Committee IPAC (International Particle Acc. Conference)
2019 - Present
                 Editorial Board of JPP (Journal of Plasma Physics, Cambridge University Press)
2019 - Present
2018 - Present
                 Member of the Program Advisory Committee LULI/ELI-NP/LCLS
2017 - Present
                 Member of Int. Adv. Committee of LPAW, EAAC, HEDS, etc. in Europe, Asia and USA
2017 – Present
                 Editorial board member of Matter and Radiation at Extremes (China)
2017 – Present
                 Panel Member of for Distinguished Professor Grant at the Swedish Research Council
2017 - Present
                 Member of Prizes/Awards committees in Europe (EPS, DFG, etc.) and in Israel (Technion)
                 Expert for Science and Technology Facility Council executive board
2017
2013
                 Member of the International Review Panel for Wallenberg Foundation in Sweden
                 Member of Panel of expert for Swiss National Science Foundation
2014
                 Member of the International Review Panel for Clusters Excellence in Germany
2011
2011 - 2018
                 Member of Panel of expert for ERC -PE2-Fundamental Physics
2010
                 Editor with C. Joshi for NJP special review « Laser and Beam plasma accelerators » (Europe)
                 Member of scientific committee of conferences (>30, CLEO, SPIE, EPS, FPPT, ICPP, AAC,
2008 – Present
                 LPAW, HEDS, ICONO, ICFA, Nuclear Photonics Conference, PAHBB, IPAC, EAAC, etc)
                 Member of International IEEE PAST Award committee in 2008, 2009, 2010, 2011
2008 - 2011
2005 - 2010
                 Member of Panel of expert of HEP and DOE (Europe & USA)
2005 – Present
                 President (and founder) of the John Dawson PhD prize since 2005
2001 – Present
                 External reviewer for Professors Position in US, India and in European countries
1998 – Present
                 Reviewer for scientific journal (Science, Nature, Nature Communications, Nature Photonics,
                 Nature Physics, PRL, PRX, OL, PoP, PPCF, EPL, PPCF, NJP, RSI, etc)
                 Expert for the DOE, NSF (USA), ESF, ERC, DFG, CEA, CLRC (UK), BSF (Israel-USA).
1994 – Present
1993 - Present
                 Member of panel (> 50) for PhD and HDR diploma in France, Europe, and Asia
> MEMBERSHIPS OF SCIENTIFIC SOCIETIES
                 Elected member of EPS Accelerator DG
2020 -
2002 - 2005
                 Elected member of EPS Scientific Council
1998 - Present
                 Member of SFP (French Physical Society), EPS (European Physical Society), APS (American
                 Physical Society), SIF (Italian Physical Society), OSA (Optical Society of America) and SFO
> SCIENCE MEDIA and SOCIETY (selection)
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Portrait in Le Monde (25/04/2018), France Culture (04/04/2018), Libération (23/04/2015). Reflets de la Physique 2013, La recherche 2010, Nature « the plasma revolution » (449, 2007), Science et vie (Mai 2007). France3 TV, France Inter. 30' Interview for the national Indian TV Dodarsan (15/04/2008). La stampa, Science et Avenir (2007), La recherche (2007, 2010), American Scientific (feb.2006). Author « Pour la science » (mars 2006), La Recherche (avril 2005). Frankfurt Allemagne Zeitung (9 March 2005), in Neue Zurcher Zeitung. Etc...

> FIELDS OF INTEREST (selection)

Plasmas physics, relativistic laser-plasma interaction, plasma accelerators, particles and X ray beam production, ultrafast phenomena, radiotherapy, radiobiology, material science, inertial fusion.

> INDUSTRIES

Initiated the spin-off company "SourceLab" dedicated to compact gamma ray source for non-destructive material inspection and development of laser plasma accelerators. 6 patents.