

PERSONAL INFORMATION Kazuo Tanaka


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Sex Male | Date of birth 04/04/1951 | Nationality Japanese

**WORK
EXPERIENCE**

Aug. 2026- Present	CSI Scientist ELI-NP/ IFIN-HH, Magurele-Bucharest, Romania Responsible for Super-ising PhD students, advising scientists for designing experiments, bridging the collaboration among ELI-NP, Osaka Univ.,and Okamoto Opt.
Feb.2022-Jul. 2026	Physicist ELI-NP/ IFIN-HH, Magurele-Bucharest, Romania Responsible for Super-ising PhD students, advising scientists for designing experiments, bridging the collaboration among ELI-NP, Osaka Univ.,and Okamoto Opt.
Apr. 2022-Sept. 2026	Scientific advisor EX-Fusion, Osaka Japan Advising the CEO of EX-Fusion and supporting research activities at EX-Fusion.
Sept. 2016-Jan. 2022	Scientific director ELI-NP/ IFIN-HH, Magurele-Bucharest, Romania Responsible for all the activites related to ELI-NP implementation, forming the user community, and collaborating with ELI-ERIC.
Sept. 2016-present	Specially appointed professor Insti. Laser Eng., Osaka University, Osaka Japan Responsible for bridging the collaboration among ELI-NP, Osaka Univ.,and Okamoto Opt., advising the director of ILE, Osaka U and supporting research activities at ILE.
Apr. 2012-Mar. 2013	Program officer of Japan Society for Promotion of Science, Japan Tokyo Japan Evaluating research proposals for grant application
Apr. 2011-Mar. 2016	Director of Science and Engineering Library, Osaka University Osaka Univ. Library, Suita Osaka Japan Responsible for the library activity

- Apr. 2011-Mar. 2015 **Director of Center for Nonlinear Science and Engineering, Osaka University**
Osaka University, Suita, Osaka Japan
- Responsible for inter-connecting related research groups for fund raising.
- Apr. 2009-Mar. 2010 **Visiting professor**
National Institute of Fusion Science, Toki, Aichi, Japan
- Laser fusion reactor design and experiments
- Apr. 2001-Aug. 2016 **Professor**
Osaka University
- Laser fusion research
- Apr. 1995-Mar. 1997 **Visiting professor**
Yokohama National University, Yokohama Japan
- Lecture for laser fusion
- Apr. 1991-Mar. 2001 **Associate professor**
Osaka University
Laser fusion research
- Apr. 1984-Mar. 1991 **Assistant professor**
Osaka University
Laser fusion research
- Apr. 1991-Mar. 2001 **Research Associate**
Laboratory for Laser Energetics, University of Rochester, USA
Laser plasma interaction physics

EDUCATION AND TRAINING

- 1979-1982 **PhD**
University of Rochester, Rochester, N.Y., U.S.A.
- Non-linear scattering processes of stimulated Raman and stimulated Brillouin in laser produced plasmas
- 1978-1979 **Master**
University of Rochester, Rochester, N.Y., U.S.A.
- Laser plasma physics
- 1974-1976 **Master**
Osaka University, Osaka Japan
- Electrical Engineering
- 1970-1974 **Bachelor**
Osaka University, Osaka Japan

- Electrical Engineering

PERSONAL SKILLS

Mother tongue(s) Japanese

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through my work as researcher with a long international experience

Organisational / managerial skills ▪ directorship (ELI-NP, Osaka U. Library, and Nonlinear center)
 ▪ advising people (scientific supervisor of PhD students and scientists)
 ▪ decision making skills
 ▪ promoting harmonious discussions for producing science outputs

Job-related skills ▪ ability to work under pressure
 ▪ conducting large projects

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user -
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
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ADDITIONAL INFORMATION

Publications > 400 in referred international journals
 Presentations > 40
 Projects 10
 Conferences > 50
 Citations > 2000
 H-index (Scopus) 60

ANNEXES

ARTICLES IN REFERED JOURNALS/BOOKS

Listed in different file

【Director of a project won (CONTRIBUTION TO PROJECTS)】

1. ELI-NP Project (2016-2022): Extreme Light Infrastructure Nuclear Physics Phase II, a project financed by the Romanian government and the European Union through the European Regional Development Fund and the Competitiveness Operational Programme (No. 1007.07.2016, COP, ID 1334) (2016-2021) The total fund has been about 400 Million Euros.
2. S level research project fund in MEXT
"Study of Fast Ignition using Super-penetration Laser Focusing" (2015-2019)
\$1.5 M
3. MEXT project fund
"Exploration of New Extreme Matter using both XFEL and Power Lasers"
(2012-2017) \$15 M
4. A level research funds in MEXT (2008-2010, 2010-2013) \$0.5M x2
5. Two B level research funds in MEXT \$0.3M
6. Experimental Activities
7. Leaders in numerous experimental campaigns conducted at GEKKO XII and PW laser facilities at Osaka University since 1985.
8. Principle Investigator on the experimental campaigns at the OMEGA laser system at the University of Rochester, N.Y., U.S.A. for fast ignition core formation studies with GA, UR collaboration since 1995.
9. Principle Investigator on the experimental campaigns at Rutherford Appleton Laboratory (UK) PW laser system with RAL collaboration since 2005.
10. Coordinator on the collaboration research with GA, UCSD, Univ of Michigan (U.S.A.), Shanghai Institute of Optics and Fine Mechanics, Science and Technical University of China, Shanghai Jiatong University (China), CEA, LULI (France), University of Oxford, Rutherford Appleton Laboratory (U.K.), Madrid Technical University (Spain), Nagoya Univ., National Institute of Fusion Science, University of Electro-communications, JAEA and Ritsumeikan University.
Jan. 22, 2018

【Member in the International Advisory Board of a scientific event 】

1. Board Member of IFSA: Inertial Fusion Science and Applications (International Conference)(2001-)
2. Board Member of Japanese Society of Plasma Science and Nuclear Fusion Research(2004-2008)
3. Board Member of Institute of Laser Technology(2000-)
Program Chair of Japanese Society of Plasma Science and Nuclear Fusion Research(2004-2006)
4. Editor in Chief at Japanese Society of Plasma Science and Nuclear Fusion Research(2006-2008)
5. Editor of Plasma Physics and Controlled Fusion (2006-)
6. Board Member of Asian Intense Laser Network (2006-)
7. Board Member of International Committee on Ultrahigh Intensity Lasers(2007-)

8. Board Member of Plasma Physics and Controlled Fusion Journal at the Institute of Physics, U.K. (2006-)
9. Deputy Chair Japanese Physics Society, Division of Plasma Physics (2007-2008)
10. Chair Japan Physical Society, Division of Plasma Physics (2008-2009)
11. Board Member of Institute of Laser Engineering (2005-2009)
12. Board Member of Institute of Laser Technology (2005-2018)
13. Board Member of Laser Society of Japan (2009-2018)
14. Representative delegate of Japan Physical Society (2011-2013)
15. AAPPs-DPP IOC (International Organizing Committee) member (2019-)
16. <https://nps.org.np/wp-content/uploads/2021/05/Preliminary-announcement-v3.pdf>
17. ICUIL (International Committee on Ultra-high Intensity Laser member (2018-)
<https://www.icuil.org/about-icuil/committee.html>

【Scientific reviewer at international journals 】

Physical Review Letters, Physical Review E, Plasma Physics and Controlled Fusion, Physics of Plasmas, Review of Laser Engineering, Matter and Radiation at Extremes, Laser and Particle Beams,

【Organiser of national and international scientific events】

- 1) International Fusion Sciences and Applications (IFSA) 1999
Topical Program co-chair, Bordeaux France
- 2) Japan- U.S. Fast Ignition workshop 1999
San Diego, U.S.A.
- 3) International Fusion Sciences and Applications (IFSA) 2001
Topical Program co-chair, Kyoto Japan
- 4) International Fusion Sciences and Applications (IFSA) 2003
Organizing co-chair, Montrey U.S.A.
- 5) Fast Ignition Workshop 2004.
Co-Chair, Kyoto Japan
- 6) International Fusion Sciences and Applications (IFSA) 2005
Organizing co-chair, Biarritz France
Jan. 22, 2018
- 7) Japan- U.S. Fast Ignition workshop 2006
Co-chair, Philadelphia U.S.A.
- 8) Japan- U.S. Fast Ignition workshop 2007
Co-chair Shiga Japan
- 9) International Fusion Sciences and Applications (IFSA) 2007
Organizing Co-chair, Kobe Japan
- 10) International Fusion Sciences and Applications (IFSA) 2009
Co-chairs, San Francisco U.S.A. (Co-chairs :Dr Edward Moses, LLNL,USa and Dr Christine Labaune, LULI France)
- 11) International Fusion Sciences and Applications (IFSA) 2011
Co-chairs, Bordeaux France
- 12) Co-chair of Japan-US fast ignition workshops (1999-2009) with Dr R Stephens (GA, USA).
- 13) Co-chair of Laser Fusion Reactor workshop at TOFE conference, Las Vegas, Oct. 2010 with Prof A. Hassanein, Purdue Univ. USA.
- 14) PLASMA CONFERENCE 2011, Vice Program Chair & organizing member, Kanazawa, Japan, Nov. 22-25,2011.
- 15) Chair of Japan Plasma Science Federation (2011-2013)

- 16) Chair of ASHULA (JSPS Asian Core Research and Education Program) Grand Seminar/Symposium 2016 (Jan. 5-7, 2016, Osaka U.).
- 17) Chair of ELISS2017 (ELI Summer School, Aug. 27-Sept.1, 2017, Cheil Gradestei, Romania)
- 18) Chair of ELI-NP International Symposium: Inaugural 10 PW Laser and Users Symposium – Extreme Light Infrastructure: Moving into Uncharted Territories, Nov. 20, 2020.
- 19) Chair of Yamanaka Award Committee, IFSA (2023-current)
- 20) Vice Chair of Mima Award Committee, AAPPs-DPP (2025-current)
- 21) Vice Chair of Inertial Fusion Energy Forum Japan (2025-current)

【Seminars at important scientific centres abroad】

Osaka University to ELI-NP,
10th KPSI Seminar, Aug. 25, 2016, KPSI, QST, Kizu Japan

Nano structured target interaction with ultra-intense laser
Darmstadt University
Se

【Other Services】

2002-2008

Key Person: Japan-China core to core university program in high energy density science (Inertial Fusion Energy)

2007-2009

Director: Japan-India two country joint project under JSPS (Japan Society of Promotion for Science)

2011-2016

Director: Asia Core University Program “ASHULA” under JSPS.

Tanaka has raised 17 PhDs in his career.

2023-Current

Coordination Key Person: MOU signed by University of Osaka, Okamoto Opt., ELI-NP in the presence of Japanese Prime J Minister Kishida and Romanian President KW Iohannis. Center for High Power Optics construction starts in 2025. Japan and Romania have signed on the Strategic Partnership Agreement by Iohannis and Kishida in 2023.

【Awards】

1. International Rotary Club Fellowship (1978)

2. APS (American Physical Society) Fellow, U.S.A. (2003)

Citation “For outstanding experimental contributions to high energy density plasma physics in the areas of laser-plasma interactions, equation of state, cryogenic implosions, and fast ignition.”

3. Award of Ministry of Education and Culture Japan (2005)

Citation “For original first proof of fast ignition heating scheme.”

4. APS Dawson Award, U.S.A.(2006)

Citation "For developing the Fast Ignition inertial fusion concept and for

demonstrating key aspects of it in a series of experiments that have catalyzed the world-wide effort on the concept."

5. Daiwa Award, U.K. (2007)

Citation "For international outstanding research on fast ignition."

6. Progress Award, Laser Society of Japan(2011)

Citation "For Advanced ultra intense laser PW laser system development."

7. Taizan Award, Inst. Laser Technology

Citation "For promoting the international relationship with Romania via. Scientific Director at ELI-NP".(2023)

8. Contribution Award, Inst. Laser Engineering, The University of Osaka

Citation "Promotion of International Industry-Academia Collaboration with Romania's ELI-NP and Okamoto Optics (2025)