

Masakazu ANPO

Professor

Emeritus Professor, Osaka Metropolitan University (Osaka Prefecture University changed name in 2022.) (ex. Vice-President) Sakai, Osaka, Japan

Fuzhou University, Special Honorary Professor and Overseas Academic Master, Fuzhou, Fujian, P. R. China



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Education:

1966.4-1970.3: National Shinshu University, Chemical Engineering, Bachelor's Degree

1970.4-1972.3: Osaka Prefecture University, Applied Chemistry, Master's Degree

1972.4-1975.3: Osaka Prefecture University, Applied Chemistry, Doctoral's Degree

Experience:

1975 -1990: Research Assoc., Osaka Prefecture University, and Assist. Prof., then Assoc. Professor

1990 -2015: Full Professor, Osaka Prefecture University

2007 -2009: Dean, Graduate School of Engineering, Osaka Prefecture University

2009 – 2013: Vice-President and Executive Director, Osaka Prefecture University, and Director of the R&D Center for Plant Factory, etc.

2013 -2015: Advisor to the President, Osaka Prefecture University (2015 March; Retirement)

2015 -2016: Dean of the International College of Fuzhou University, P. R. China

2016 – Present: Special Honorary Professor and Overseas Academic Master, Fuzhou University.

Selective Honors & Awards:

Award of the Japan Photochemical Society (1994)

Award of the Chemical Society of Japan (2003)

Member, Academia Europaea (2008)

Award of the Ministry of Education of Japan (2009)

Award of the Catalysis Society of Japan (2011)

Member, Science Council of Japan (2011-2023)

Fujian Provincial Hundred Foreign Experts (2015)

Tamkang Clement and Carrie Chair (Panda Award) (2018)

Honorary Fellow of the Chinese Chemical Society (2019)

The 11th Fujian Friendship Award (2020)

Research Areas:

Prof. Masakazu ANPO is a pioneer in the research of photochemical reactions on solid surfaces (Heterogeneous Photochemistry), including catalysts, and has published the first book in this field, “Photocatalysis” in 1988 from Asakura-shoten in Tokyo, and “Photochemistry on Solid Surfaces” in 1989 from Elsevier. He published many important and instructive books, such as “Environmentally Benign Photocatalysts” in 2010 from Springer, “Plant Factory Using Artificial Light” and “Chemistry of Silica and Zeolite-based Materials” in 2019 from Elsevier. Until today, he has published more than 110 scientific books, including a recent book entitled “UV-Visible Photocatalysis for Clean Energy Production and Pollution Remediation” in 2023 from Wiley-VCH with Prof. Xianzhi Fu and Xinchun Wang of Fuzhou University.

Prof. Anpo has published over 555 original peer-reviewed papers in English, being cited more than 45,000 times. His dream is the establishment of “Solar Chemistry” as a new, sustainable, environmentally-friendly science and technology. Currently, he has an interest in the hybridization of artificial photosynthesis (photocatalysis) and natural photosynthesis, which leads to an efficient production of clean H₂ from water involving wasted biomasses and safe and reliable vegetables by utilizing of sunlight effectively.

Selective Publications:

1. Carbon Nitride Aerogels for the Photoredox Conversion of Water, *Angew. Chem. Int. Ed.*, **129**, 11045-11050 (2017).
2. Visible Light-responsive Photocatalysis -fromTiO₂ to carbon Nitrides and Boron Carbon Nitride-, *Adv. Inorg. Chem.*, **72**, 49-85 (2018).
3. Photoredox dual reaction for selective alcohol oxidation and hydrogen evolution over nickel surface-modified ZnIn₂S₄, *Appl. Catal. B: Environmental*, **271**, 118946-118961 (2020)
4. Gradient Zn-Doped Poly Heptazine Imides.Integrated with a van der Waals Homojunction Boosting Visible Light-Driven Water Oxidation, *ACS Catal.*, **11**, 13463–13471 (2021).
5. High Performance of Potassium Poly(heptazine imide) Films for Photoelectrochemical Water Splitting, *Chem. Sci.*, **13**, 7541-7551 (2022).
6. Crystal facet and oxygen vacancies synergistically mediate photocatalytic ozonation for organic pollutants removal over CeO₂, *J. Catal.*, **438**, 115714 (2024).
7. Pressure-induced engineering of surface oxygen vacancies on metal oxides for heterogeneous photocatalysis, *J. Amer. Chem. Soc.*, **147**, 4945-4951 (2025).
8. Copolymerization of poly(triazine imide) single crystal nanoplates with enhanced charge transfer for efficient photocatalytic overall water splitting, *Adv. Funct. Mater.*, **35**, 2420899 (2025)