Curriculum vitae (WANG Qingyuan)

EDUCATION

- 1998, Ph.D, CNRS-MMS (Mater., Mech. & Struct.), **Ecole Centrale Paris**, **France**
- 1991, ME, Dept of Engineering Mechanics, SCU, China
- 1986, BE, Dept of Engineering Mechanics, SCU, China

PREVIOUS EMPLOYMENT

- 2014- : President, Prof, CDU, China
- 2017- : Director of Key Lab. of Deep Earth Sci. & Eng., Ministry of Education, China
- 2011- : Director of Key Lab. of Failure Mech. & Eng. safety, Sichuan Province, China
- 2005-2010: Dean, Prof, School of Architecture and Environment, SCU, China
- 2003-2005: Professor, School of Architecture and Environment, SCU, China
- 2001-2003: JSPS fellow, Kagoshima University, Japan
- 1999-2000: Postdoc fellow, Engineering School, IUPUI, USA

DISTINCTIONS AND AWARDS

- **National Natural Science Award, China**, **PI,** 2018.
- **Fellow of European Academy of Sciences and Arts,** 2023
- **Senior Career Award of 2024 (Inter J Structural Integrity), 2024**
- **ICCES Distinguished Fellow Award of 2024** (the International Conference on Computational & Experimental Engineering and Sciences and the Tech Science Press), 2024
- **Outstanding Paper Award of 2013-2023** (*Materials Research Letters*), 2023
- **The First Prize of Technological Invention**, China Association of Inventions, PI, 2022.
- **Outstanding Open Science Author of the Year 2022** (*Cabon Energy*, Willy), 2022
- **European Advanced Materials Award of the Year 2022**（IAAM）, 2022
- **Technology Invention Award, (MOE, China), PI,** 2022,
- **The First Prize of Sci & Tech Progress, The Chinese Society of Mechanics**, **PI**, 2021.
- **The First Prize of Technological Invention,** China Association of Inventions, PI, 2020
- **World's Top 2% Scientists** (Mendeley Data), **1960-2023**.
- **Fellow of International Association of Advanced Materials (IAAM)**, 2020.
- **Effective Fellow candidate, Chinese Academy of Engineering**, 2019
- **Sichuan Science and Technology Award of Research, First class, PI,** 2019.
- **Chinese Most Cited Researchers (Elsevier,** General Eng & Mech**) 2014-2023.**
- **Sichuan Natural Science Award of Research, First class, PI**, 2014.
- **Natural Science Award of Research, First class, (MOE, China), PI**, 2006.
- **Enlisted Scientist for "100 Talents Program" of Chinese Academy of Sciences**, China, 2003.
- JSPS fellow, Japan（2001-2003）
- French-China Government Scholarship (1995-1998)

COMMITTEE SERVICES

- Editor-in chief, ***Green Building & Materials***, 2024-
- Co-Chair, The 22th National Conference of Fatigue&Fracture, Chengdu, 2024
- Co-Chair, The **55th of Advanced Materials Congress**, Stockholm, Sweden, 28-31 Aug, 2023
- Chair, Organizing committee, **2021+1 Chinese Congress on Mechanics**, Chengdu, 2022.
- Congress Chair, AM Web Congress on Structural and Engineering Materials, 2021.
- Co-chair, The 20th National Congress on Fatigue and Fracture, Chongqing, 2020
- Co-Chair, The 2nd Sino-Thai Youth Scholars Symposium on Mechanics, Chengdu, China,

2018.

- Member, Chinese State Council Degree Discipline Appraisal Group (Mechanics)，2015-2019
- Secretary General, National High Education Steering Committee (Mechanics)，2013-2019
- Vice chairman, the executive committee on Experimental Mechanics in Chinese Society of Mechanics, 2007-2012，2020-2024
- Associate Editor, Physical and Numerical Simulation of Geotechnical Engineering, 2012-
- Editorial Committee member, Inter J Fatigue, 2021-
- Editorial Committee member, Fatigue Fract Eng Mater Structures, 2014-2022
- Editorial Committee member, Acta Mechanica Sinica, 2019-2024
- Chair, organizing committee, 6th International Conference on Very High Cycle Fatigue (VHCF-6), Chengdu, 2014.
- Co-Chair, National Conference on Solid Mechanics，Chengdu, China, 2014.
- Co-Chair, International Conference on Experimental Mechanics, SEM Fall, Beijing, China,2014.
- Chair, organizing committee, International Workshop on Post-Earthquake Reconstruction and Safe Buildings, Chengdu, China, 2008.
- Chair,, 1st National Workshop on Super long life Fatigue, Chengdu, China, 2005.

List of the 20 most important publications

1. XP Niu, C He, SP Zhu*, P Foti, F Berto, LY Wang, D Liao, **QY Wang***. Defect sensitivity and fatigue design: Deterministic and probabilistic aspects in AM metallic materials. ***Prog Mater Sci***, 2024, 144:101290

2. SX Xie*, Q Xu, Q Chen, JG Zhu, **QY Wang***. Realizing Super-High Piezoelectricity and Excellent Fatigue Resistance in Domain-Engineered Bismuth Titanate Ferroelectrics. ***Adv Funct Mater,*** 2024, 34(18):2312645）

3. X Ding, CC Tam, XL Sui, Y Zhao, MH Xu, J Choi, HQ Leng, J Zhang, M Wu, HY Xiao, XT Zu, M Garcia-Fernandez, S Agrestini, XQ Wu, **QY Wang***, P Gao, S Li, B Huang*, KJ Zhou*, L Qiao*. Critical role of hydrogen for superconductivity in nickelates. ***Nature***, 615:50-55, 2023.

4. PM Ismail, S Ali, Sh Ali, JH Li, M Liu, D Yan, F Raziq, F Wahid, GJ Li, SH Yuan, XQ Wu, JB Yi, JS Chen, **QY Wang***, L Zhong*, Y Yang, PF Xia*, L Qiao*. Photoelectron “bridge” in Van Der Waals Heterojunction for Enhanced Photocatalytic CO2 Conversion Under Visible Light, ***Adv Mater,*** 35(38):202303047, 2023.

5. LC Guo, P Xia, T Wang*, AN Yakovlev, TT Hu, F Zhao, **Wang QY***, X Yu*. Visual Representation of the Stress Distribution with a Color-Manipulated Mechanoluminescence of Fluoride for Structural Mechanics. ***Adv Funct Mater,*** 2023, 33(49):2306875

6. Zhang P, Teng ZW, Zhao L, Liu ZC, Yu X*, Zhu XD, Peng SC, Wang T, Qiu JB, **Wang QY**, Xu XH*. Multi-Dimensional Mechanical Mapping Sensor Based on Flexoelectric-like and optical signals. ***Adv Science***, 2023, 10(19):2301214.

7. QY Deng, SP Zhu*, XP Niu, G Lesiuk, W Macek, **QY Wang***. Load path sensitivity and multiaxial fatigue life prediction of metals under non-proportional loadings. ***Inter J Fatigue***, 2023, 166:107281

8. HG Zhang, B He, XP Zhu, **QY Wang*,** ZW Jiang*. The use of AE technique for identifying ductility degradation against cryogenic on flexural performance of UHPC at

various temperature conditions, ***Cement & Concrete Comp,*** 137:104904, 2023.

9. G Huang QQ Kong, WT Yao, **QY Wang**. Poly tannic acid carbon rods as anode materials for high performance lithium and sodium ion batteries. ***J Colloid & Interface Science,*** 629:832-845, 2023.

10. Yang MM, Kong QQ*, Feng W, Yao WT, **Wang QY***. Hierarchical porous nitrogen, oxygen, and phosphorus ternary doped hollow biomass carbon spheres for high-speed and long-life potassium storage. ***Carbon Energy***, 4(1); 45-59, 2022.

11. Q Liu, LS Xie, J Liang, YC Ren, LC Yue, TS Li, YS Luo, N Li, QQ Kong, **QY Wang**, DW Ma, XP Sun, etc. Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo2O4 Nanowire Array. ***Small***, 18(13):2106961, 2022.

12. J Tang, WT Jiang, **QY Wang**, XB Tian, D Wei, HD Fan*. Hardening effects of sheared precipitates on $\{11\bar{2}1\}$ twinning in magnesium alloys, ***Journal of Magnesium and Alloy***, 11(2):580-591,2023.

13. XK Li, SP Zhu*, D Liao, JAFO Correia, F Berto, **QY Wang***. Probabilistic fatigue modelling of metallic materials under notch and size effect using the weakest link theory. ***Inter J Fatigue***, 2022, 159:106788.

14. XP Niu, SP Zhu*, C He, D Liao, JAFO Correia, F Berto, **QY Wang***. Defect tolerant fatigue assessment of AM materials: Size effect and probabilistic prospects. ***Inter J Fatigue***, 2022, 160:106884.

15. JC He, SP Zhu*, CQ Luo, XP Niu, **QY Wang***. Size effect in fatigue modelling of defective materials: Application of the calibrated weakest-link theory. ***Inter J Fatigue***, 2022, 165:107213.

16. HD Fan*, **QY Wang***, JA El-Awady, D Raabe & M Zaiser. Strain rate dependency of dislocation plasticity. ***Nature Commun***, 2021, 12:1845, 1-11.

17. AE-F Abomobra, XY Zheng, **QY Wang**, J Huang, etc. Enhancement of biodiesel yield and characteristics through *in-situ* solvo-thermal co-transesterification of wet microalgae with spent coffee grounds. ***Bioresource Technology***, 323:124640, 2021.

18. SX Xie, JY Li, **QY Wang**, etc. Three-dimensional domain patterns in tetragonal-monoclinic Bi4Ti3O12 ceramics: nonlinear analysis and piezoresponse force microscopy imaging. ***Acta Mater***, 2020, 188:228-240.

19. D Liao, SP Zhu*, GA Qian, **QY Wang***. Probabilistic framework for fatigue life assessment of notched components under size effects. ***Inter J Mech Science***, 2020, 1811:105685.

20. AE-F Abomobra, **QY Wang**, J Huang. **Waste-to-Energy, *Springer Nature*,** 2022. ISBN 978-3-030-91569-8