

Curriculum vitae: Hannah Yanhua Zong

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Summary

Passionate educator and web development expert with a strong background in front and back-end technologies. Currently teaching and mentoring the next generation of developers, with a focus on interactive learning, innovative web technologies, and fostering critical thinking. Dedicated to enhancing the educational experience through practical applications and emerging tech.

Work Experience

Assistant Professor of Practice, Purdue University – West Lafayette, IN	07/2023 – Present
Senior Web Developer, Purdue University – West Lafayette, IN	07/2023 – 07/2024
Web Developer, Purdue University – West Lafayette, IN	02/2019 – 07/2023
Global Leadership Research Fellow, Kyoto University – Kyoto, Japan	10/2010 – 09/2011

Education

M.S. in Computer Graphics Technology, Purdue University, USA	05/2017 – 05/2019
Ph.D. in Materials Chemistry, Kyoto University, Japan	10/2007 – 09/2010
M.S. in Materials Science, Shanghai Institute of Optics and Fine Mechanics, China	09/2004 – 07/2007
B.S. in Physics, East China Normal University, China	09/2000 – 07/2004

Awards

Global Leadership Research Fellowship	10/2010
Japanese Government (MEXT) Scholarship	10/2007

Publications

- Yanhua Zong**, X. Meng, K. Fujita, K. Tanaka. *Multicolor light emissions from mesoporous silica particles embedded with Ga₂O₃ nanocrystals*. *Optical Materials Express*, 4, 518 (2014).
- X. Meng, K. Fujita, Y. Moriguchi, **Y. Zong**, K. Tanaka. *Metal-Dielectric Core-Shell Nanoparticles: Advanced Plasmonic Architectures Towards Multiple Control of Random Lasers*. *Advanced Optical Materials*, 1, 573 (2013).

3. K. Tanaka, K. Fujita, Y. Maruyama, Y. Kususe, H. Murakami, H. Akamatsu, **Y. Zong**, S. Murai. *Ferromagnetic induced by lattice volume expansion and amorphization in EuTiO₃ thin films*. Journal of Materials Research, 28, 1031 (2013).
4. H. Akamatsu, K. Fujita, H. Hayashi, T. Kawamoto, Y. Kumagai, **Y. Zong**, et al. *Crystal and Electronic Structure and Magnetic Properties of Divalent Europium Perovskite Oxides EuMO₃ (M = Ti, Zr, Hf): Experimental and First-Principles Approaches*. Inorganic Chemistry, 51, 4560 (2012).
5. **Y. Zong**, K. Fujita, H. Akamatsu, S. Nakashima, S. Murai, K. Tanaka. *Local structure of amorphous EuO-TiO₂ thin films probed by X-ray absorption fine structure*. Journal of the American Ceramic Society, 95, 716 (2011).
6. **Y. Zong**, K. Fujita, H. Akamatsu, S. Murai, K. Tanaka. *Ferromagnetic amorphous EuZrO₃ thin films with reentrant spin glass transition*. Physica Status Solidi (c), 8, 3051 (2011).
7. H. Akamatsu, K. Fujita, **Y. Zong**, N. Takemoto, S. Murai, K. Tanaka. *Impact of amorphization on the magnetic properties of EuO-TiO₂ system*. Physical Review B, 82, 224403 (2010).
8. T. Kolodiazhnyi, K. Fujita, L. Wang, **Y. Zong**, et al. *Magnetodielectric effect in EuZrO₃*. Applied Physics Letters, 96, 252901 (2010).
9. **Y. Zong**, K. Fujita, H. Akamatsu, S. Murai, K. Tanaka. *Preparation and magnetic properties of amorphous EuTiO₃ thin films*. Journal of Non-Crystalline Solids, 356, 2389 (2010).
10. **Y. Zong**, K. Fujita, H. Akamatsu, S. Murai, K. Tanaka. *Antiferromagnetism of perovskite EuZrO₃*. Journal of Solid State Chemistry, 183, 168 (2010).
11. K. Fujita, N. Wakasugi, S. Murai, **Y. Zong**, K. Tanaka. *High-quality antiferromagnetic EuTiO₃ epitaxial thin films on SrTiO₃ prepared by pulsed laser deposition and postannealing*. Applied Physics Letters, 94, 062512 (2009).
12. X. Meng, K. Fujita, S. Murai, **Y. Zong**, et al. *Random lasers from highly transparent polymer films containing superfine silver nanoparticles*. Physica Status Solidi (c), 6, S102 (2009).
13. X. Meng, K. Fujita, **Y. Zong**, S. Murai, K. Tanaka. *Random lasers with coherent feedback from highly transparent polymer films embedded with silver nanoparticles*. Applied Physics Letters, 92, 201112 (2008).
14. X. Xu, G. Zhao, F. Wu, W. Xu, **Y. Zong**, et al. *Growth and spectral properties of Er:Gd₂SiO₅ crystal*. Journal of Crystal Growth, 310, 156 (2008).
15. S.S. Cai, J. Kong, B. Wu, **Y. Zong**, et al. *Room-temperature cw and pulsed operation of a diode-end-pumped Tm:YAP laser*. Applied Physics B, 90, 133 (2008).
16. X. Xu, F. Wu, W. Xu, **Y. Zong**, et al. *Growth and spectral properties of Yb,Tm:YAG crystal*. Journal of Alloys and Compounds, 462, 347 (2008).
17. H. Akamatsu, **Y. Zong**, Y. Fujiki, K. Kamiya, K. Fujita, S. Murai, K. Tanaka. *Structural and Magnetic Properties of CdFe₂O₄ Thin Films Fabricated via Sputtering Method*. IEEE Transactions on Magnetics, 44, 2796 (2008).
18. B. Yao, L. Zheng, G. Zhao, **Y. Zong**. *Judd-Ofelt Analysis of Spectroscopic Properties of Tm³⁺ Doped Lu₂SiO₅ Crystals*. Chinese Journal of Lasers, 35, 601 (2008).
19. B. Yao, Y. Li, Y. Wang, X. Duan, G. Zhao, **Y. Zong**, et al. *Efficient diode-pumped Tm:YAP laser with a pump recycling scheme*. Chinese Physics Letters, 24, 2597 (2007).

20. Y. Li, B. Yao, Y. Wang, **Y. Zong**, et al. *High efficient diode-pumped Tm:YAP laser at room temperature.* Chinese Optics Letters, 5, 286 (2007).
21. B. Yao, Y. Li, Y. Wang, **Y. Zong**, et al. *Tm:YAP laser pumped by fiber-coupled diode.* High Power and Particle Beams, 19, 1632 (2007).
22. D. Cao, G. Zhao, **Y. Zong**, J. Xu. *Properties of Ce:YAP crystals with different dopant concentration.* Journal of Chinese Rare Earth Society, 25, 509 (2007).
23. **Y. Zong**, G. Zhao, J. Zhu, J. Xu. *Growth and its spectroscopic properties of Sm:YAP crystal.* Journal of Crystal Growth, 291, 468 (2006).
24. **Y. Zong**, G. Zhao, C. Yan, X. Xu, L. Su, J. Xu. *Growth and spectral properties of Gd₂SiO₅ crystal codoped with Er and Yb.* Journal of Crystal Growth, 294, 416 (2006).