

PUBLICATIONS

JOURNAL PAPERS

1. **Danlei Yin**, Jun Wang, Ying Wang, Peng Liu, Jie Ma, Xiaodong Xu, Deyuan Shen, Zhili Dong, Ling Bing Kong, Dingyuan Tang, Fabrication of Er:Y₂O₃ transparent ceramics for 2.7 μm mid-infrared solid-state lasers, submitted to *Journal of the European Ceramic Society*, 2019, Submitted.
2. **Danlei Yin**, Jun Wang, Peng Liu, Haiyong Zhu, Bingqing Yao, Zhili Dong, Dingyuan Tang, Fabrication and microstructural characterizations of lasing grade Nd:Y₂O₃ ceramics, *Journal of the American Ceramic Society*, 2019, Accepted.
3. **Danlei Yin**, Jie Ma, Peng Liu, Bingqing Yao, Jun Wang, Zhili Dong, Ling Bing Kong, Dingyuan Tang, Submicron-grained Yb:Lu₂O₃ transparent ceramics with lasing quality, *Journal of the American Ceramic Society*, 2019, 102[5], 2587-2592.
4. **Danlei Yin**, Jun Wang, Peng Liu, Dewei Luo, Ling Bing Kong, Zhili Dong, Dingyuan Tang, Yttria nanopowders with low degree of aggregation by a spray precipitation method, *Ceramics International*, 2018, 44[16], 20472-20477.
5. Jun Wang, **Danlei Yin**, Jie Ma, Peng Liu, Ying Wang, Zhili Dong, Ling Bing Kong, Dingyuan Tang, Pump laser induced photodarkening in ZrO₂-doped Yb:Y₂O₃ laser ceramics, *Journal of the European Ceramic Society*, 2019, 39[2-3], 635-640.
6. Haiyong Zhu, Yongchang Zhang, **Danlei Yin**, Jun Wang, Yanmin Duan, Jing Zhang, Peng Liu, Dingyuan Tang, Highly efficient CW operation of a diode pumped Nd:Y₂O₃ ceramic laser. *Opt. Mater. Express* 8, 2018, 8[11], 3518–3525.
7. Jun Wang, Yongguang Zhao, **Danlei Yin**, Peng Liu, Jie Ma, Ying Wang, Deyuan Shen, Zhili Dong, Ling Bing Kong, Dingyuan Tang, Holmium doped yttria transparent ceramics for 2-μm solid state lasers, *Journal of the European Ceramic Society*, 2018, 38[4], 1986-1989.
8. Jun Wang, Jie Ma, Jian Zhang, Peng Liu, Dewei Luo, **Danlei Yin**, Dingyuan Tang, Ling Bing Kong, Yb:Y₂O₃ Transparent Ceramics Processed with Hot Isostatic Pressing, *Optical Materials*, 2017, 71, 117-120.

9. Jun Wang, Kaijie Ning, Jian Zhang, Dewei Luo, Jie Ma, **Danlei Yin**, Dingyuan Tang, Ling Bing Kong, Rapid rate sintering of yttria transparent ceramics, *Journal of the American Ceramic Society*, 2016, 99 [6], 1935–1942.
10. Jun Wang, Jian Zhang, Kaijie Ning, Jie Ma, Dewei Luo, **Danlei Yin**, Hao Yang, Dingyuan Tang, Ling Bing Kong, Densification of zirconia doped yttria transparent ceramics using co-precipitated powders, *Ceramics International*, 2016, 42[9], 10770–10778.
11. Jun Wang, Jian Zhang, Kaijie Ning, Dewei Luo, Hao Yang, **Danlei Yin**, Dingyuan Tang, Ling Bing Kong, Densification of yttria transparent ceramics: The utilization of activated sintering, *Journal of the American Ceramic Society*, 2016, 99[5], 1671–1675.

PATENTS FILED

1. Dingyuan Tang, Jun Wang, **Danlei Yin**, Transparent Sesquioxide Ceramics With High Transparency, Singapore provisional patent (No. 10201901470X), filed on 20 Feb. 2019.
2. Dingyuan Tang, Jun Wang, **Danlei Yin**, Rare Earth Ions-Doped Sesquioxide Ceramics With Lasing Grade Optical Quality And Without Pump Laser Induced Photodarkening, Singapore provisional patent (No. 10201901471X), filed on 20 Feb. 2019.

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2. **D. Yin**, J. Wang, Z. Dong, D.Y. Tang, Highly transparent Y₂O₃ ceramics with CaO as sintering additive, 14th Laser Ceramics Symposium, Okazaki, Japan (2018).
3. J. Wang, **D. Yin**, J. Ma, Y. Wang, D.Y. Tang, Rare-earth doped Y₂O₃ transparent ceramics for solid-state laser applications, 11th International Conference on High-

Performance Ceramics, Kunming, China (2019).

4. D.Y. Tang, J. Wang, **D. Yin**, H. Zhu, D. Shen, Z. Dong, Fabrication of rare-earth doped yttria laser ceramics and their high efficiency laser operations, 14th Laser Ceramics Symposium, Invited talk, Okazaki, Japan (2018).
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6. J. Wang, **D. Yin**, P. Liu, J. Ma, Y. Wang, D.Y. Tang, Rare-earth doped sesquioxide transparent ceramics: fabrication and laser emission, 8th International Advances in Applied Physics and Materials Science Congress & Exhibition, Invited talk, Oludeniz, Turkey (2018).
7. J. Wang, **D. Yin**, P. Liu, J. Ma, Z. Dong, L.B. Kong, D.Y. Tang, Recent Progress on Fabrication of Rare-earth Doped Sesquioxide Laser Ceramics,” 14th International Ceramics Congress, Invited talk, Perugia, Italy (2018).
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