

2020 年度国家自然科学奖提名公示信息

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	Surface effects on elastic properties of silver nanowires: Contact atomic-force microscopy/ Physical Review B / G. Y. Jing, H. L. Duan, X. M. Sun, Z. S. Zhang, J. Xu, Y. D. Li, J. X. Wang, D. P. Yu						G. Y. Jing, H. L. Duan, X. M. Sun, Z. S. Zhang, J. Xu, Y. D. Li, J. X. Wang, D. P. Yu		

2	Electronic and mechanical coupling in bent ZnO nanowires/ Advanced Materials / Xiaobing Han, Liangzhi Kou, Xiaoli Lang, Jianbai Xia, Ning Wang, Rui Qin, Jing Lu, Jun Xu, Zhimin Liao, Xinzheng Zhang, Xudong Shan, Xuefeng Song, Jingyun Gao, Wanlin Guo, Dapeng Yu	2009 21 4937	2009 08 13			Xiaobing Han, Liangzhi Kou, Xiaoli Lang, Jianbai Xia, Ning Wang, Rui Qin, Jing Lu, Jun Xu, Zhimin Liao, Xinzheng Zhang, Xudong Shan, Xuefeng Song, Jingyun Gao, Wanlin Guo, Dapeng Yu	85	SCI-E	
3	Exciton Drift in Semiconductors under Uniform Strain Gradients: Application to Bent ZnO Microwires/ ACS Nano / Xuewen Fu, Gwenole Jacopin, Mehran Shahmohammadi, Ren Liu, Malik Benameur, Jean-Daniel Ganière, Ji Feng, Wanlin Guo, Zhi-Min Liao, Benoit Deveaud, Dapeng Yu	2014 8 3412	2014 03 21	Benoit Deveaud		Xuewen Fu, Ren Liu, Ji Feng, Wanlin Guo, Zhi-Min Liao, Dapeng Yu	32	SCI-E	
4	Tunable Bandgap in Silicene and Germanene/ Nano Letters / Zeyuan Ni, Qihang Liu, Kechao Tang, Jiaxin Zheng, Jing Zhou, Rui Qin, Zhengxiang Gao, Dapeng Yu, Jing Lu	2012 12 113	2011 11 03			Zeyuan Ni, Qihang Liu, Kechao Tang, Jiaxin Zheng, Jing Zhou, Rui Qin, Zhengxiang Gao, Dapeng Yu, Jing Lu	704	SCI-E	
5	Self powered, ultrafast, visible blind UV detection and optical logical operation based on ZnO/GaN nanoscale p-n junctions/ Advanced Materials / Ya-Qing Bie, Zhi-Min Liao, Hong-Zhou Zhang, Guang-Ru Li, Yu Ye, Yang-Bo Zhou, Jun Xu, Zhi-Xin Qin, Lun Dai, Da-Peng	2011 23 649	2010 12 15			Ya-Qing Bie, Zhi-Min Liao, Guang-Ru Li, Yu Ye, Yang-Bo Zhou, Jun Xu, Zhi-Xin Qin, Lun Dai, Da-Peng Yu	224	SCI-E	

	Yu								
6	Layer-by-layer assembly of vertically conducting graphene devices/ Nature Communications / Jing-Jing Chen, Jie Meng, Yang-Bo Zhou, Han-Chun Wu, Ya-Qing Bie, Zhi-Min Liao, Da-Peng Yu	2013 4 1921	2013 05 28			Jing-Jing Chen, Jie Meng, Yang-Bo Zhou, Ya-Qing Bie, Zhi-Min Liao, Da-Peng Yu	45	SCI-E	
7	Spin-Filter Effect in Magnetite Nanowire/ Nano Letters / Zhi-Min Liao, Ya-Dong Li, Jun Xu, Jing-Min Zhang, Ke Xia, Da-Peng Yu	2006 6 1087	2006 04 28			Zhi-Min Liao, Ya-Dong Li, Jun Xu, Jing-Min Zhang, Ke Xia, Da-Peng Yu	78	SCI-E	
8	Memory and Threshold Resistance Switching in Ni/NiO Core-Shell Nanowires/ Nano Letters / Li He, Zhi-Min Liao, Han-Chun Wu, Xiao-Xue Tian, Dong-Sheng Xu, Graham L. W. Cross, Georg S. Duesberg, I. V. Shvets, Da-Peng Yu	2011 11 4601	2011 10 10			Li He, Zhi-Min Liao, Xiao-Xue Tian, Dong-Sheng Xu, Da-Peng Yu	89	SCI-E	
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