

# Jian-Ming Tang

## List of Publications by Year in descending order

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32  
papers

968  
citations

516710

16  
h-index

477307

29  
g-index

32  
all docs

32  
docs citations

32  
times ranked

928  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Atom-by-atom substitution of Mn in GaAs and visualization of their hole-mediated interactions. Nature, 2006, 442, 436-439.  | 27.8 | 266       |
| 2  | Multiband Tight-Binding Model of Local Magnetism in Ga <sub>1-x</sub> Mn <sub>x</sub> As. Physical Review Letters, 2004, 92, 047201.  | 7.8  | 98        |
| 3  | Zero-field optical manipulation of magnetic ions in semiconductors. Nature Materials, 2008, 7, 203-208.   | 27.5 | 67        |
| 4  | Warping a single Mn acceptor wavefunction by straining the GaAs host. Nature Materials, 2007, 6, 512-515.   | 27.5 | 65        |
| 5  | Bernsteinâ€“Greeneâ€“Kruskal solitary waves in three-dimensional magnetized plasma. Physical Review E, 2004, 69, 055401.  | 2.1  | 52        |
| 6  | Electron spin-phonon interaction symmetries and tunable spin relaxation in silicon and germanium. Physical Review B, 2012, 85, .  | 3.2  | 49        |
| 7  | All-Electrical Control of Single Ion Spins in a Semiconductor. Physical Review Letters, 2006, 97, 106803.   | 7.8  | 47        |
| 8  | Atomically precise impurity identification and modification on the manganese doped GaAs(110) surface with scanning tunneling microscopy. Physical Review B, 2008, 78, .                               | 3.2  | 42        |
| 9  | Spin-orientation-dependent spatial structure of a magnetic acceptor state in a zinc-blende semiconductor. Physical Review B, 2005, 72, .  | 3.2  | 32        |
| 10 | Surface Induced Asymmetry of Acceptor Wave Functions. Physical Review Letters, 2010, 104, 086404.   | 7.8  | 28        |
| 11 | Enhanced binding energy of manganese acceptors close to the GaAs(110) surface. Physical Review B, 2010, 82, .   | 3.2  | 26        |
| 12 | Van Hove features in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ and effective parameters for Ni impurities inferred from STM spectra. Physical Review B, 2002, 66, . | 3.2  | 23        |
| 13 | Magnetic Circular Dichroism from the Impurity Band in III-V Diluted Magnetic Semiconductors. Physical Review Letters, 2008, 101, 157203.  | 7.8  | 22        |
| 14 | Anisotropic spatial structure of deep acceptor states in GaAs and GaP. Physical Review B, 2008, 77, .   | 3.2  | 21        |
| 15 | Transition from Disorder to Order in Thin Metallic Films Studied with Angle-Resolved Photoelectron Spectroscopy. Physical Review Letters, 2008, 100, 027603.  | 7.8  | 19        |
| 16 | Highly Ordered Assembly of Single-Domain Dichloropentacene over Large Areas on Vicinal Gold Surfaces. ACS Nano, 2011, 5, 1792-1797.   | 14.6 | 19        |
| 17 | The growth of sulfur adlayers on Au(100). Journal of Chemical Physics, 2015, 142, 064708.   | 3.0  | 17        |
| 18 | Power-law singularity in the local density of states due to the point defect in graphene. Physical Review B, 2009, 80, .  | 3.2  | 14        |

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|----|---|-----|-----------|
| 19 | Impurity-induced low-energy resonances in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\hat{\Gamma}$ . <i>Physical Review B</i> , 2004, 70, .   | 3.2 | 13        |
| 20 | Atomic-layer-resolved bound states in quantum wells analyzed using a pseudopotential approach. <i>Physical Review B</i> , 2008, 78, .   | 3.2 | 9         |
| 21 | Sharp organic interface of molecular $\text{C}_{60}$ chains and a pentacene derivative SAM on Au(788): A combined STM & DFT study. <i>Surface Science</i> , 2013, 618, 78-82.               | 1.9 | 9         |
| 22 | Longitudinal force on a moving potential. <i>Physical Review B</i> , 1998, 58, 14179-14182.   | 3.2 | 7         |
| 23 | Hole-mediated interactions of Mn acceptors on GaAs (110) (invited). <i>Journal of Applied Physics</i> , 2007, 101, 09G515.  | 2.5 | 7         |
| 24 | Magnetic anisotropy of single Mn acceptors in GaAs in an external magnetic field. <i>Physical Review B</i> , 2013, 88, .  | 3.2 | 5         |
| 25 | VARIATIONAL WAVE FUNCTIONS OF A VORTEX IN CYCLOTRON MOTION. <i>International Journal of Modern Physics B</i> , 2001, 15, 1601-1604.   | 2.0 | 4         |
| 26 | Optical and electrical manipulation of single ion spins in semiconductors. , 2009, , .  |     | 2         |
| 27 | Lateral Standing of the Pentacene Derivative 5,6,7-Trithiapentacene-13-one on Gold: A Combined STM, DFT, and NC-AFM Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11938-11944. | 3.1 | 2         |
| 28 | The Structure of a Quantized Vortex in a Bose-Einstein Condensate. <i>Journal of Low Temperature Physics</i> , 2000, 121, 287-292.  | 1.4 | 1         |
| 29 | Structure of excited vortices with higher angular momentum in Bose-Einstein condensates. <i>Physical Review A</i> , 2004, 70, .   | 2.5 | 1         |
| 30 | Collective resonances near zero energy induced by a point defect in bilayer graphene. <i>Scientific Reports</i> , 2018, 8, 10938.   | 3.3 | 1         |
| 31 | High speed single dopant spin manipulation with a single electrical gate. , 2009, , .   |     | 0         |
| 32 | VARIATIONAL WAVE FUNCTIONS OF A VORTEX IN CYCLOTRON MOTION. , 2000, , .   |     | 0         |