

# Janet Tate

## List of Publications by Year in descending order

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76  
papers

3,721  
citations

159585

30  
h-index

128289

60  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous-to-crystalline transition of thin-film TiO <sub>2</sub> precursor films to brookite, anatase, and rutile polymorphs. Journal of Materials Research, 2022, 37, 1135-1143.	2.6	4
2	Templated Growth of Metastable Polymorphs on Amorphous Substrates with Seed Layers. Physical Review Applied, 2020, 13, .	3.8	7
3	Crystallization of TiO <sub>2</sub> polymorphs from RF-sputtered, amorphous thin-film precursors. AIP Advances, 2020, 10, 025109.	1.3	10
4	A map of the inorganic ternary metal nitrides. Nature Materials, 2019, 18, 732-739.	27.5	274
5	Selective brookite polymorph formation related to the amorphous precursor state in TiO <sub>2</sub> thin films. Journal of Non-Crystalline Solids, 2019, 505, 109-114.	3.1	13
6	Novel phase diagram behavior and materials design in heterostructural semiconductor alloys. Science Advances, 2017, 3, e1700270.	10.3	46
7	Using heterostructural alloying to tune the structure and properties of the thermoelectric Sn <sub>1-x</sub> Ca <sub>x</sub> Se. Journal of Materials Chemistry A, 2017, 5, 16873-16882.	10.3	19
8	High-fraction brookite films from amorphous precursors. Scientific Reports, 2017, 7, 15232.	3.3	56
9	Design Meets Nature: Tetrahedrite Solar Absorbers. Advanced Energy Materials, 2015, 5, 1401506.	19.5	45
10	Structural and electronic modification of photovoltaic SnS by alloying. Journal of Applied Physics, 2014, 115, .	2.5	29
11	Thermal conductivity of amorphous thin-film Al <sup>2</sup> O <sub>3</sub> on silicon. Thin Solid Films, 2013, 548, 225-229.	1.8	2
12	Representations for a spins-first approach to quantum mechanics. , 2012, , .		15
13	Band-structure, optical properties, and defect physics of the photovoltaic semiconductor SnS. Applied Physics Letters, 2012, 100, .	3.3	382
14	Role of lone pair electrons in determining the optoelectronic properties of BiCuOSe. Physical Review B, 2012, 85, .	3.2	42
15	Synthesis, structure, and optical properties of BiCuOCh (Ch=S, Se, and Te). Journal of Solid State Chemistry, 2012, 187, 15-19.	2.9	44
16	Interdiffusion at the BaCuSeF/ZnTe interface. Thin Solid Films, 2011, 519, 7369-7373.	1.8	3
17	Pulsed laser deposition of BiCuOSe thin films. Applied Physics A: Materials Science and Processing, 2011, 102, 485-492.	2.3	23
18	Tunable properties of wide-band gap p-type BaCu(Ch <sub>1-x</sub> Ch <sub>x</sub> ) <sub>2</sub> F (Ch = S, Se, Te) thin-film solid solutions. Thin Solid Films, 2010, 518, 5494-5500.	1.8	21

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19	Band alignment at the BaCuSeF/ZnTe interface. Applied Physics Letters, 2010, 96, 162110. Defect physics of $\text{BaCuC}_h\text{F}$	3.3	9
20	Electronic structure and excitonic absorption in $\text{BaCuC}_h\text{F}$ type. Physical Review B, 2010, 82, .	3.2	23
21	Electronic properties of $\text{BaCuC}_h\text{F}$ (Ch=S,Se,Te) surfaces and BaCuSeF/ZnPc interfaces. Journal of Applied Physics, 2010, 107, .	3.2	21
22	Low-temperature, solution processing of TiO <sub>2</sub> thin films and fabrication of multilayer dielectric optical elements. Solid State Sciences, 2009, 11, 1692-1699.	2.5	12
23	pin double-heterojunction thin-film solar cell p-layer assessment. Solar Energy Materials and Solar Cells, 2009, 93, 1296-1308.	3.2	54
24	Thin film preparation and characterization of wide band gap $\text{Cu}_3\text{TaQ}_4$ (Q = S or Se) p-type semiconductors. Thin Solid Films, 2009, 517, 2473-2476.	6.2	38
25	Origin of $\text{p}$ -type conduction in single-crystal $\text{CuAlO}_2$	1.8	35
26	Physical Review B, 2009, 80, .	3.2	158
27	Chalcogen-based transparent conductors. Thin Solid Films, 2008, 516, 5795-5799.	1.8	46
28	Synthesis and characterization of $\text{Sn}^{2+}$ oxides with the pyrochlore structure. Materials Research Bulletin, 2008, 43, 1943-1948.	5.2	23
29	Electrical and optical properties of epitaxial transparent conductive BaCuTeF thin films deposited by pulsed laser deposition. Solid State Sciences, 2008, 10, 921-927.	3.2	21
30	Integrating computational activities into the upper-level Paradigms in Physics curriculum at Oregon State University. American Journal of Physics, 2008, 76, 340-346.	0.7	11
31	Structure and physical properties of BaCuTeF. Journal of Solid State Chemistry, 2007, 180, 1672-1677.	2.9	30
32	p-Type zinc oxide powders. Solid State Sciences, 2007, 9, 613-618.	3.2	21
33	Valence band structure of BaCuSF and BaCuSeF. Journal of Applied Physics, 2006, 100, 083705.	2.5	31
34	High Electron Mobility W-doped In <sub>2</sub> O <sub>3</sub> Thin Films. Materials Research Society Symposia Proceedings, 2005, 905, 1.	0.1	0
35	High electron mobility W-doped In <sub>2</sub> O <sub>3</sub> thin films by pulsed laser deposition. Applied Physics Letters, 2005, 87, 112108.	3.3	87
36	Nuclear quadrupole resonance studies of transparent conducting oxides. Solid State Nuclear Magnetic Resonance, 2004, 26, 209-214.	2.3	8

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37	Structural and transport properties of $\text{CuSc}_{1-x}\text{Mg}_x\text{O}_{2+y}$ delafossites. Journal of Applied Physics, 2004, 96, 6188-6194.	2.5	23
38	Gap modulation in $\text{MCu}[\text{Q}_1\text{Q}_2\text{F}]$ (M=Ba, Sr; Q, $\text{Q}_2=\text{S, Se, Te}$ ) and related materials. Thin Solid Films, 2003, 445, 288-293.	1.8	40
39	P-type conductivity in transparent oxides and sulfide fluorides. Journal of Solid State Chemistry, 2003, 175, 34-38.	2.9	38
40	Transparent electronics and prospects for transparent displays. , 2003, , .		2
41	p-type conductivity in wide-band-gap $\text{BaCuQF}$ (Q=S,Se). Applied Physics Letters, 2003, 82, 2814-2816.	3.3	74
42	New $\text{CuM}_2/3\text{Sb}_1/3\text{O}_2$ and $\text{AgM}_2/3\text{Sb}_1/3\text{O}_2$ compounds with the delafossite structure. Solid State Sciences, 2002, 4, 787-792.	3.2	40
43	p-Type oxides for use in transparent diodes. Thin Solid Films, 2002, 411, 119-124.	1.8	186
44	Electrical and optical properties of $\text{PbCu}_2\text{O}_2$ . Solid State Communications, 2002, 122, 295-297.	1.9	4
45	p-Type conductivity in the delafossite structure. Solid State Sciences, 2001, 3, 265-270.	0.7	211
46	p-type conductivity in $\text{CuCr}_{1-x}\text{Mg}_x\text{O}_2$ films and powders. Journal of Applied Physics, 2001, 89, 8022-8025.	2.5	395
47	Transparent <i>p-n</i> Heterojunction Thin Film Diodes. Materials Research Society Symposia Proceedings, 2001, 666, 411.	0.1	24
48	p-Type transparent thin films of $\text{CuY}_{1-x}\text{Ca}_x\text{O}_2$ . Thin Solid Films, 2001, 397, 244-248.	1.8	125
49	Paradigms in Physics: A new upper-division curriculum. American Journal of Physics, 2001, 69, 978-990.	0.7	38
50	Electrical characterization of transparent <i>p-n</i> heterojunction diodes. Journal of Applied Physics, 2001, 90, 5763-5767.	2.5	84
51	Synthesis and characterization of some ZnS-based thin film phosphors for electroluminescent device applications. Thin Solid Films, 2000, 365, 134-138.	1.8	121
52	Transparent p-type conducting $\text{CuScO}_{2+x}$ films. Applied Physics Letters, 2000, 77, 1325-1326.	3.3	231
53	Red electroluminescence from $\text{ZnGaS:Mn}$ thin films. Applied Physics Letters, 1999, 75, 2353-2355.	3.3	5
54	Oxygen dynamics in epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films. , 1999, 120/121, 325-329.		1

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55	Tetragonal-orthorhombic phase transition in YBaCuO thin films observed by perturbed angular correlation spectroscopy. Journal of Materials Research, 1998, 13, 947-953.	2.6	2
56	Neutron-irradiation effects on the V-I characteristics of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> twinned crystals: Linking transport results in a variety of copper oxide superconductors. Physical Review B, 1997, 55, R8713-R8716.	3.2	11
57	Title is missing!. , 1997, 110, 271-286.		4
58	Scaling of thin-film Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4-<math>\delta</math></sub> resistivity-current isotherms at low fields: Implications for vortex phase transitions and universality. Physical Review B, 1995, 51, 15281-15285.	3.2	20
59	Evidence for three-dimensional flux creep in thin-film Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> . Physical Review B, 1995, 52, 3776-3783.	3.2	3
60	Scaling of voltage-current characteristics of thin-film Y-Ba-Cu-O at low magnetic fields. Physical Review B, 1994, 49, 6890-6894.	3.2	57
61	Field dependence of the current-voltage characteristics of thin-film YBaCuO at low magnetic fields. Physica B: Condensed Matter, 1994, 194-196, 1889-1890.	2.7	0
62	Incorporation of hyperfine probes into the thin-film superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> during deposition. Applied Physics Letters, 1993, 63, 3224-3226.	3.3	6
63	The resistive transition of superconducting Nd <sub>2-<math>x</math></sub> Ce <sub><math>x</math></sub> CuO <sub>4-<math>\delta</math></sub> films. Physica C: Superconductivity and Its Applications, 1992, 193, 207-211.	1.2	6
64	Determination of the Cooper-pair mass in niobium. Physical Review B, 1990, 42, 7885-7893.	3.2	39
65	Absolute measurement of the diameter of a fused quartz hemisphere at 6 K. Review of Scientific Instruments, 1989, 60, 985-992.	1.3	1
66	Low-frequency noise reduction in SQUID measurements using a laser-driven superconducting switch. Part A: Direct input circuit switching. Review of Scientific Instruments, 1989, 60, 202-208.	1.3	10
67	YBaCuO films on silicon substrates: Fabrication, characterization, and use as phonon detectors.. Physica C: Superconductivity and Its Applications, 1989, 162-164, 389-390.	1.2	0
68	Far infrared transmission of YBCO films deposited on Si substrate. Solid State Communications, 1989, 72, 681-684.	1.9	2
69	Preparation and characterization of YBCO thin films on silicon. Journal of the Less Common Metals, 1989, 151, 311-316.	0.8	15
70	Precise Determination of the Cooper-Pair Mass. Physical Review Letters, 1989, 62, 845-848.	7.8	60
71	PREPARATION AND CHARACTERIZATION OF YBCO THIN FILMS ON SILICON. , 1989, , 311-316.		0
72	Ellipsometric spectra of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> in the 1.7 $\mu$ m - 5.3 eV range. Solid State Communications, 1988, 66, 1071-1075.	1.9	26

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73	High-Tc films by thermal co-evaporation: First phonon experiments. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1451-1452.	1.2	5
74	Low-temperature preparation of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films on Si, MgO, and SrTiO <sub>3</sub> by thermal coevaporation. Applied Physics Letters, 1988, 53, 925-926.	3.3	129
75	Determination of $h/m^*$ Using a Rotating Niobium Ring. Japanese Journal of Applied Physics, 1987, 26, 1689.	1.5	0
76	Precise determination of $h/me$ using a rotating, superconducting ring. Physical Review B, 1985, 31, 7006-7011.	3.2	18