Shigeru Suehara

List of Publications by Year in Descending Order

55 papers	986 citations	17 h-index	30 g-index
58 ext. papers	1,095 ext. citations	3.9 avg, IF	3.93 L-index

#	Paper	IF	Citations
55	Phonon dispersion of a two-dimensional boron sheet on Ag(111). *Physical Review Materials*, **2021**, 5,	3.2	1
54	Novel MAB phases and insights into their exfoliation into 2D MBenes. *Nanoscale*, **2019**, 11, 11305-11314	7.7	64
53	Two-dimensional silicon boride on ZrB2(0001). *Physical Review Materials*, **2019**, 3,	3.2	2
52	What is the origin of macroscopic friction?. *Science Advances*, **2018**, 4, eaav2268	14.3	19
51	Stability of Montmorillonite Edge Faces Studied Using First-Principles Calculations. *Clays and Clay Minerals*, **2017**, 65, 252-272	2.1	3
50	Phonon dispersion of silicene on ZrB2(0 0 0 1). *Journal of Physics Condensed Matter*, **2015**, 27, 305002	1.8	20
49	Interlayer bonding energy of layered minerals: Implication for the relationship with friction coefficient. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 2212-2219	3.6	22
48	Rocks : an open source Linux OS for buildinga PC-cluster environment. *Journal of Computer Chemistry Japan*, **2015**, 14, A25-A32	0.2	
47	Silicene on Zirconium Carbide (111). *Journal of Physical Chemistry C*, **2014**, 118, 23049-23057	3.8	115
46	Dynamic breathing of CO2 by hydrotalcite. *Journal of the American Chemical Society*, **2013**, 135, 18040-3	16.4	57
45	Cesium stability in a typical mica structure in dry and wet environments from first-principles. *Geochimica Et Cosmochimica Acta*, **2013**, 109, 62-73	5.5	11
44	Virtual-crystal approach to aluminum-avoidance materials: A first-principles density-functional calculation of micas. *Physical Review B*, **2012**, 85,	3.3	3
43	Position preference and diffusion path of an oxygen ion in apatite-type lanthanum silicate La9.33Si6O26: a density functional study. *Journal of Materials Chemistry*, **2011**, 21, 3234		29
42	Graphenelike surface boron layer: Structural phases on transition-metal diborides (0001). *Physical Review B*, **2010**, 81,	3.3	29
41	Three-dimensionally nanostructured alumina film on glass substrate: Anodization of glass surface. *Journal of Non-Crystalline Solids*, **2008**, 354, 451-455	3.9	17
40	Ab initio calculation of chain structures in chalcohalide glasses. *Journal of Non-Crystalline Solids*, **2008**, 354, 168-172	3.9	1
39	High nonlinear optical properties in TeO2-based glasses: A modifier□ influence study from the localized hyperpolarizability approach. *Journal of Non-Crystalline Solids*, **2008**, 354, 188-192	3.9	2

38	Surface phonon dispersion of [Formula: see text]. *Journal of Physics Condensed Matter*, **2008**, 20, 265006	1.8	9
37	High Nonlinear Optical Properties in TeO2-Based Materials: Localized Hyperpolarisability Approach. *Ferroelectrics*, **2007**, 347, 162-167	0.6	4
36	Zinc oxide film growth on zirconium boride. *Superlattices and Microstructures*, **2006**, 39, 179-184	2.8	3
35	Effective algorithm for material exploration in ceramics with combinatorial technology. *Journal of the European Ceramic Society*, **2006**, 26, 731-734	6	3
34	Ab initio calculation of the refractive index and third-order nonlinear optical susceptibility of typical glass formers using the bond additivity model. *Physical Review B*, **2006**, 73,	3.3	12
33	Advanced approaches to functional glasses. *Journal of Non-Crystalline Solids*, **2006**, 352, 632-645	3.9	12
32	Combinatorial approach to new glasses. *Applied Surface Science*, **2006**, 252, 2450-2455	6.7	2
31	A combinatorial sample-preparation robot system using the volumetric-weighing method. *Applied Surface Science*, **2006**, 252, 2456-2460	6.7	7
30	Effect of Si addition on In2O3 crystallization in soda-boro-aluminosilicate glass. *Journal of Non-Crystalline Solids*, **2005**, 351, 1701-1704	3.9	4
29	Surface core-level shift and electronic structure on transition-metal diboride (0001) surfaces. *Physical Review B*, **2005**, 71,	3.3	53
28	Refractive Index Reduction at the Surface of Co/Cu-Doped Silicate Glasses Induced by Femto-Second Laser Irradiation. *Journal of the Ceramic Society of Japan*, **2005**, 113, 308-311		
27	(mathsf{sqrt{3}}) linear structures in the Te/Ni(111) system. *European Physical Journal B*, **2004**, 38, 111-115	1.2	1
26	Localized hyperpolarizability approach to the origin of nonlinear optical properties in TeO2-based materials. *Physical Review B*, **2004**, 70,	3.3	36
25	Non-linear optical properties of TeO2-based glasses: ab initio static finite-field and time-dependent calculations. *Journal of Non-Crystalline Solids*, **2004**, 345-346, 730-733	3.9	14
24	Investigation of glass formation and color properties in the P2O5□TeO2□nO system. *Journal of Non-Crystalline Solids*, **2003**, 324, 58-66	3.9	32
23	Oxyfluoride tellurite glasses doped by erbium: thermal analysis, structural organization and spectral properties. *Journal of Non-Crystalline Solids*, **2003**, 325, 85-102	3.9	133
22	Spectral properties of Er 3+ doped oxyfluoride tellurite glasses. *Journal of Non-Crystalline Solids*, **2003**, 326-327, 359-363	3.9	36
21	Glass Formation and Reddish Coloring Properties in Zinc Phosphotellurite Glass.. *Materials Research Society Symposia Proceedings*, **2002**, 754, 1		

20	Ion beam induced reaction of carbon films on Si(1 0 0). *Applied Surface Science*, **2001**, 169-170, 296-299	6.7	3
19	Effects of ion beam irradiation on the crystallization of Si□ films. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 148, 594-598	1.2	5
18	Cluster calculational approach to tellurite glasses. *Physical Review B*, **1998**, 58, 14124-14126	3.3	16
17	Ion beam induced epitaxial crystallization of SrTiO3. *Nuclear Instruments & Methods in Physics Research B*, **1997**, 121, 184-186	1.2	1
16	Effect of oxygen adsorption on ion beam induced recrystallization of copper films. *Nuclear Instruments & Methods in Physics Research B*, **1997**, 121, 157-161	1.2	1
15	Roughness study of ion-irradiated silica glass surface. *Applied Surface Science*, **1996**, 100-101, 374-377	6.7	7
14	Water vapor effects on theTeO2/Tethin film conductance. *Applied Surface Science*, **1996**, 100-101, 252-255	6.7	5
13	Bonding nature in tellurite glasses. *Physical Review B*, **1995**, 51, 14919-14922	3.3	16
12	EXAFS and RDF studies of TeO2□i2O glasses. *Journal of Materials Research*, **1995**, 10, 405-410	2.5	29
11	Valence-band spectra of hydrogenated diamond (111) surface. *Diamond and Related Materials*, **1995**, 4, 520-523	3.5	7
10	Interaction of Chlorine with Hydrogenated Diamond Surface. *Journal of the Chinese Chemical Society*, **1995**, 42, 285-292	1.5	32
9	Effects of ion beam irradiation on the crystallization of Copper films. *Materials Research Society Symposia Proceedings*, **1995**, 396, 195		
8	Variation of the Structural Unit in Tellurite Glasses. *Materials Research Society Symposia Proceedings* , **1995**, 407, 197		
7	Valence-band spectra of alpha -TeO2. *Physical Review B*, **1994**, 50, 7981-7983	3.3	15
6	Oxdation Process of Te Film.. *Shinku/Journal of the Vacuum Society of Japan*, **1992**, 35, 131-133		
5	Effect of flourine doping on Bi?Pb?Sr?Ca?Cu?O Superconductor. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 477-478	1.3	11
4	Ultra-high-resolution HVEM (H-1500) newly constructed at NIRIM. *Ultramicroscopy*, **1991**, 39, 8-20	3.1	38
3	Ultra-high-resolution HVEM (H-1500) newly constructed at NIRIM. *Ultramicroscopy*, **1991**, 39, 231-237	3.1	27

2	Diffraction streaks from the chimney ladder structure in an (Sr1.5Ca1.5)Cu5+□y crystal. *Acta Crystallographica Section A: Foundations and Advances*, **1991**, 47, 727-735		15
1	Some Results Obtained by a Newly Constructed Ultra-High-Resolution 1300 kV Electron Microscope. *Japanese Journal of Applied Physics*, **1991**, 30, L64-L66	1.4	5