

# Shigeru Suehara

## List of Publications by Citations

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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	Oxyfluoride tellurite glasses doped by erbium: thermal analysis, structural organization and spectral properties. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 325, 85-102	3.9	133
54	Silicene on Zirconium Carbide (111). <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23049-23057	3.8	115
53	Novel MAB phases and insights into their exfoliation into 2D MBenes. <i>Nanoscale</i> , <b>2019</b> , 11, 11305-11314	7.7	64
52	Dynamic breathing of CO <sub>2</sub> by hydrotalcite. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18040-3	16.4	57
51	Surface core-level shift and electronic structure on transition-metal diboride (0001) surfaces. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	53
50	Ultra-high-resolution HVEM (H-1500) newly constructed at NIRIM. <i>Ultramicroscopy</i> , <b>1991</b> , 39, 8-20	3.1	38
49	Localized hyperpolarizability approach to the origin of nonlinear optical properties in TeO <sub>2</sub> -based materials. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	36
48	Spectral properties of Er <sup>3+</sup> doped oxyfluoride tellurite glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 326-327, 359-363	3.9	36
47	Investigation of glass formation and color properties in the P <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> -ZnO system. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 324, 58-66	3.9	32
46	Interaction of Chlorine with Hydrogenated Diamond Surface. <i>Journal of the Chinese Chemical Society</i> , <b>1995</b> , 42, 285-292	1.5	32
45	Position preference and diffusion path of an oxygen ion in apatite-type lanthanum silicate La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> : a density functional study. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3234		29
44	Graphenelike surface boron layer: Structural phases on transition-metal diborides (0001). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	29
43	EXAFS and RDF studies of TeO <sub>2</sub> -SiO <sub>2</sub> glasses. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 405-410	2.5	29
42	Ultra-high-resolution HVEM (H-1500) newly constructed at NIRIM. <i>Ultramicroscopy</i> , <b>1991</b> , 39, 231-237	3.1	27
41	Interlayer bonding energy of layered minerals: Implication for the relationship with friction coefficient. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 2212-2219	3.6	22
40	Phonon dispersion of silicene on ZrB <sub>2</sub> (0 0 0 1). <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 305002	1.8	20
39	What is the origin of macroscopic friction?. <i>Science Advances</i> , <b>2018</b> , 4, eaav2268	14.3	19

38	Three-dimensionally nanostructured alumina film on glass substrate: Anodization of glass surface. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 451-455	3.9	17
37	Cluster calculational approach to tellurite glasses. <i>Physical Review B</i> , <b>1998</b> , 58, 14124-14126	3.3	16
36	Bonding nature in tellurite glasses. <i>Physical Review B</i> , <b>1995</b> , 51, 14919-14922	3.3	16
35	Valence-band spectra of alpha -TeO <sub>2</sub> . <i>Physical Review B</i> , <b>1994</b> , 50, 7981-7983	3.3	15
34	Diffraction streaks from the chimney ladder structure in an (Sr <sub>1.5</sub> Ca <sub>1.5</sub> )Cu <sub>5</sub> Dy crystal. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1991</b> , 47, 727-735		15
33	Non-linear optical properties of TeO <sub>2</sub> -based glasses: ab initio static finite-field and time-dependent calculations. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 345-346, 730-733	3.9	14
32	Ab initio calculation of the refractive index and third-order nonlinear optical susceptibility of typical glass formers using the bond additivity model. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	12
31	Advanced approaches to functional glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 632-645	3.9	12
30	Cesium stability in a typical mica structure in dry and wet environments from first-principles. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 109, 62-73	5.5	11
29	Effect of flourine doping on Bi?Pb?Sr?Ca?Cu?O Superconductor. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 477-478	1.3	11
28	Surface phonon dispersion of [Formula: see text]. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 265006	1.8	9
27	A combinatorial sample-preparation robot system using the volumetric-weighing method. <i>Applied Surface Science</i> , <b>2006</b> , 252, 2456-2460	6.7	7
26	Valence-band spectra of hydrogenated diamond (111) surface. <i>Diamond and Related Materials</i> , <b>1995</b> , 4, 520-523	3.5	7
25	Roughness study of ion-irradiated silica glass surface. <i>Applied Surface Science</i> , <b>1996</b> , 100-101, 374-377	6.7	7
24	Effects of ion beam irradiation on the crystallization of SiO <sub>2</sub> films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 148, 594-598	1.2	5
23	Some Results Obtained by a Newly Constructed Ultra-High-Resolution 1300 kV Electron Microscope. <i>Japanese Journal of Applied Physics</i> , <b>1991</b> , 30, L64-L66	1.4	5
22	High Nonlinear Optical Properties in TeO <sub>2</sub> -Based Materials: Localized Hyperpolarisability Approach. <i>Ferroelectrics</i> , <b>2007</b> , 347, 162-167	0.6	4
21	Effect of Si addition on In <sub>2</sub> O <sub>3</sub> crystallization in soda-boro-aluminosilicate glass. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 1701-1704	3.9	4

20	Stability of Montmorillonite Edge Faces Studied Using First-Principles Calculations. <i>Clays and Clay Minerals</i> , <b>2017</b> , 65, 252-272	2.1	3
19	Virtual-crystal approach to aluminum-avoidance materials: A first-principles density-functional calculation of micas. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	3
18	Zinc oxide film growth on zirconium boride. <i>Superlattices and Microstructures</i> , <b>2006</b> , 39, 179-184	2.8	3
17	Effective algorithm for material exploration in ceramics with combinatorial technology. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 731-734	6	3
16	Ion beam induced reaction of carbon films on Si(1 0 0). <i>Applied Surface Science</i> , <b>2001</b> , 169-170, 296-299	6.7	3
15	High nonlinear optical properties in TeO <sub>2</sub> -based glasses: A modifier influence study from the localized hyperpolarizability approach. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 188-192	3.9	2
14	Combinatorial approach to new glasses. <i>Applied Surface Science</i> , <b>2006</b> , 252, 2450-2455	6.7	2
13	Two-dimensional silicon boride on ZrB <sub>2</sub> (0001). <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	2
12	Ion beam induced epitaxial crystallization of SrTiO <sub>3</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1997</b> , 121, 184-186	1.2	1
11	Effect of oxygen adsorption on ion beam induced recrystallization of copper films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1997</b> , 121, 157-161	1.2	1
10	Ab initio calculation of chain structures in chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 168-172	3.9	1
9	$\sqrt{3}$ linear structures in the Te/Ni(111) system. <i>European Physical Journal B</i> , <b>2004</b> , 38, 111-115	1.2	1
8	Phonon dispersion of a two-dimensional boron sheet on Ag(111). <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
7	Refractive Index Reduction at the Surface of Co/Cu-Doped Silicate Glasses Induced by Femto-Second Laser Irradiation. <i>Journal of the Ceramic Society of Japan</i> , <b>2005</b> , 113, 308-311		
6	Glass Formation and Reddish Coloring Properties in Zinc Phosphotellurite Glass.. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 754, 1		
5	Water vapor effects on the TeO <sub>2</sub> /Te thin film conductance. <i>Applied Surface Science</i> , <b>1996</b> , 100-101, 252-257		
4	Effects of ion beam irradiation on the crystallization of Copper films. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 396, 195		
3	Variation of the Structural Unit in Tellurite Glasses. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 407, 197		

2 Oxidation Process of Te Film.. *Shinku/Journal of the Vacuum Society of Japan*, **1992**, 35, 131-133

1 Rocks : an open source Linux OS for building a PC-cluster environment. *Journal of Computer Chemistry Japan*, **2015**, 14, A25-A32

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