

# Jiawei Luo

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

641  
citations

471509

17  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Specular reflectance (SR) and attenuated total reflectance (ATR) infrared (IR) spectroscopy of transparent flat glass surfaces: A case study for soda lime float glass. <i>Journal of Non-Crystalline Solids</i> , 2015, 428, 189-196.	3.1	63
2	Hydrothermal reactions of soda lime silica glass â€“ Revealing subsurface damage and alteration of mechanical properties and chemical structure of glass surfaces. <i>Journal of Non-Crystalline Solids</i> , 2016, 452, 93-101.	3.1	56
3	Thermal Poling of Sodaâ€Lime Silica Glass with Nonblocking Electrodesâ€”Part 1: Effects of Sodium Ion Migration and Water Ingress on Glass Surface Structure. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1221-1230.	3.8	55
4	Molecular dynamics study of correlations between $\langle \text{IR} \rangle$ peak position and bond parameters of silica and silicate glasses: Effects of temperature and stress. <i>Journal of the American Ceramic Society</i> , 2018, 101, 178-188.	3.8	41
5	Characterization of surface structures of dealkalized soda lime silica glass using X-ray photoelectron, specular reflection infrared, attenuated total reflection infrared and sum frequency generation spectroscopies. <i>Journal of Non-Crystalline Solids</i> , 2017, 474, 24-31.	3.1	40
6	Thermal Poling of Sodaâ€Lime Silica Glass with Nonblocking Electrodesâ€”Part 2: Effects on Mechanical and Mechanochemical Properties. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1231-1238.	3.8	38
7	Boundary lubrication effect of organic residue left on surface after evaporation of organic cleaning solvent. <i>Wear</i> , 2016, 350-351, 21-26.	3.1	36
8	Complex refractive index of silica, silicate, borosilicate, and boroaluminosilicate glasses â€“ Analysis of glass network vibration modes with specular-reflection IR spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2018, 494, 94-103.	3.1	34
9	Vibrational Sum Frequency Generation Spectroscopy Study of Hydrous Species in Soda Lime Silica Float Glass. <i>Langmuir</i> , 2016, 32, 6035-6045.	3.5	29
10	Vapors in the ambientâ€”A complication in tribological studies or an engineering solution of tribological problems?. <i>Friction</i> , 2015, 3, 85-114.	6.4	25
11	Correlation between $\langle \text{IR} \rangle$ peak position and bond parameter of silica glass: Molecular dynamics study on fictive temperature (cooling rate) effect. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5419-5427.	3.8	24
12	Vibrational Sum Frequency Generation (SFG) Analysis of Ferroelectric Response of PVDF-Based Copolymer and Terpolymer. <i>Macromolecules</i> , 2017, 50, 2838-2844.	4.8	23
13	Dependence of water adsorption on the surface structure of silicon wafers aged under different environmental conditions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26041-26048.	2.8	23
14	Effect of glass composition on the hardness of surface layers on aluminosilicate glasses formed through reaction with strong acid. <i>Journal of the American Ceramic Society</i> , 2018, 101, 657-665.	3.8	22
15	Effects of fictive temperature on the leaching of soda lime silica glass surfaces. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1424-1431.	3.8	20
16	Relative abundance of subsurface hydroxyl and molecular water species in silicate and aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 510, 179-185.	3.1	19
17	Origin of Ultra-Low Friction of Boric Acid: Role of Vapor Adsorption. <i>Tribology Letters</i> , 2015, 58, 1.	2.6	18
18	Chemical structure and mechanical properties of soda lime silica glass surfaces treated by thermal poling in inert and reactive ambient gases. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2951-2964.	3.8	17

#	ARTICLE	IF	CITATIONS
19	Differences in surface failure modes of soda lime silica glass under normal indentation versus tangential shear: A comparative study on Na <sup>+</sup> /K <sup>+</sup> ion exchange effects. Journal of the American Ceramic Society, 2019, 102, 1665-1676.	3.8	16
20	Near-field corrosion interactions between glass and corrosion resistant alloys. Npj Materials Degradation, 2020, 4, .	5.8	15
21	Impact of fiberizing method on physical properties of glass wool fibers. Journal of Non-Crystalline Solids, 2017, 476, 122-127.	3.1	13
22	Atomic Force Microscopy (AFM) Analysis of an Object Larger and Sharper than the AFM Tip. Microscopy and Microanalysis, 2019, 25, 1106-1111.	0.4	13