

# Emmanuelle Guillard

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4248718/publications.pdf>

Version: 2024-02-01

31  
papers

4,320  
citations

623699

14  
h-index

434170

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

8135  
citing authors

#	ARTICLE	IF	CITATIONS
1	scikit-image: image processing in Python. PeerJ, 2014, 2, e453.	2.0	3,711
2	Frontiers of chaotic advection. Reviews of Modern Physics, 2017, 89, .	45.6	146
3	Topological mixing with ghost rods. Physical Review E, 2006, 73, 036311.	2.1	63
4	Walls Inhibit Chaotic Mixing. Physical Review Letters, 2007, 99, 114501.	7.8	54
5	Slow decay of concentration variance due to no-slip walls in chaotic mixing. Physical Review E, 2008, 78, 026211.	2.1	37
6	Fragmentation and Limits to Dynamical Scaling in Viscous Coarsening: An Interrupted <i>In Situ</i> X-Ray Tomographic Study. Physical Review Letters, 2014, 112, 245701.	7.8	35
7	Rotation Shields Chaotic Mixing Regions from No-Slip Walls. Physical Review Letters, 2010, 104, 204502.	7.8	25
8	Analyzing microtomography data with Python and the scikit-image library. Advanced Structural and Chemical Imaging, 2016, 2, 18.	4.0	25
9	<i>In Situ</i> Synchrotron Microtomography Reveals Multiple Reaction Pathways During Soda-Lime Glass Synthesis. Journal of the American Ceramic Society, 2012, 95, 1504-1507.	3.8	22
10	Topological chaos in spatially periodic mixers. Physica D: Nonlinear Phenomena, 2006, 221, 92-100.	2.8	20
11	Analysis of soda-lime glasses using non-negative matrix factor deconvolution of Raman spectra. Journal of Non-Crystalline Solids, 2015, 428, 121-131.	3.1	20
12	Hydrodynamic coarsening in phase-separated silicate melts. Acta Materialia, 2015, 92, 233-242.	7.9	18
13	Denoising applied to spectroscopies – part I: concept and limits. Applied Spectroscopy Reviews, 2019, 54, 602-630.	6.7	18
14	Atomic mobility in calcium and sodium aluminosilicate melts at 1200 Å°C. Geochimica Et Cosmochimica Acta, 2016, 192, 235-247.	3.9	14
15	Multicomponent diffusion in sodium borosilicate glasses. Journal of Non-Crystalline Solids, 2017, 478, 29-40.	3.1	13
16	Geometric Mixing, Peristalsis, and the Geometric Phase of the Stomach. PLoS ONE, 2015, 10, e0130735.	2.5	12
17	Topological Symmetry Breaking in Viscous Coarsening. Physical Review Letters, 2016, 117, 145702.	7.8	10
18	Analysis of compaction in brittle foam with multiscale indentation tests. Mechanics of Materials, 2018, 118, 22-30.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Influence of temperature on multicomponent diffusion in calcium and sodium aluminosilicate melts. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 170-180.	3.1	9
20	Denosing applied to spectroscopies " Part II: Decreasing computation time. <i>Applied Spectroscopy Reviews</i> , 2020, 55, 173-196.	6.7	8
21	Thermal behavior of waterglass: foaming and xerogel-to-glass evolution. <i>Journal of Non-Crystalline Solids</i> , 2021, 566, 120872.	3.1	7
22	Microstructure imaging of Florentine stuccoes through X-ray tomography: A new insight on ancient plaster-making techniques. <i>Journal of Cultural Heritage</i> , 2019, 40, 17-24.	3.3	6
23	Interdiffusion between silica thin films and soda-lime glass substrate during annealing at high temperature. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3341-3353.	3.8	6
24	Structural and dynamic properties of soda-lime-silica in the liquid phase. <i>Journal of Chemical Physics</i> , 2020, 153, 214505.	3.0	6
25	Structural analysis of sputtered amorphous silica thin films: A Raman spectroscopy investigation. <i>Thin Solid Films</i> , 2021, 733, 138811.	1.8	6
26	Importance of the Atmosphere on the Mechanisms and Kinetics of Reactions Between Silica and Solid Sodium Carbonate. <i>International Journal of Applied Glass Science</i> , 2015, 6, 428-437.	2.0	5
27	Aluminum-enhanced alkali diffusion from float glass to PVD-sputtered silica thin films. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1516-1525.	3.8	5
28	High-sensitivity Raman imaging of the surface of casted glass plates. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1048-1054.	2.5	4
29	Influence of zirconium on cation mobilities in Na <sub>2</sub> O-CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> melts: A multicomponent diffusion and XANES study. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 394-408.	3.9	2
30	Slow coarsening of ultra-confined phase-separated glass thin films. <i>Applied Physics Letters</i> , 2022, 120, 051602.	3.3	2
31	Geometric mixing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200168.	3.4	1