

# Szilvia Nagy

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

276  
citations

1162889

8  
h-index

996849

15  
g-index

50  
all docs

50  
docs citations

50  
times ranked

133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elementary formula for entanglement entropies of fermionic systems. <i>Physical Review A</i> , 2005, 72, .	1.0	63
2	An economic prediction of the finer resolution level wavelet coefficients in electronic structure calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31558-31565.	1.3	24
3	An economic prediction of refinement coefficients in wavelet-based adaptive methods for electron structure calculations. <i>Journal of Computational Chemistry</i> , 2013, 34, 460-465.	1.5	21
4	Multiresolution analysis of density operators, electron density, and energy functionals. <i>International Journal of Quantum Chemistry</i> , 2001, 84, 523-529.	1.0	13
5	Heat treatment parameters effecting the fractal dimensions of AuGe metallization on GaAs. <i>Applied Physics Letters</i> , 2007, 91, 073107.	1.5	13
6	Structural entropy in detecting background patterns of AFM images. <i>Vacuum</i> , 2009, 84, 179-183.	1.6	13
7	Investigation of the surface morphology on epitaxially grown fullerene structures. <i>Vacuum</i> , 2009, 84, 152-154.	1.6	11
8	Representation of the Kato electron-electron cusp condition by wavelet-based density-operator expansions. <i>Physical Review A</i> , 2001, 64, .	1.0	8
9	Refinement trajectory and determination of eigenstates by a wavelet based adaptive method. <i>Journal of Chemical Physics</i> , 2006, 125, 174107.	1.2	8
10	Fractal properties of gold, palladium and gold-palladium thin films on InP. <i>Vacuum</i> , 2009, 84, 247-250.	1.6	8
11	A wavelet-based adaptive method for determining eigenstates of electronic systems. <i>Theoretical Chemistry Accounts</i> , 2010, 125, 471-479.	0.5	8
12	Entropy based fuzzy classification and detection aid for colorectal polyps. , 2017, , .		8
13	The effect of image feature qualifiers on fuzzy colorectal polyp detection schemes using KH interpolation - towards hierarchical fuzzy classification of coloscopic still images. , 2018, , .		8
14	On Structural Entropy and Spatial Filling Factor Analysis of Colonoscopy Pictures. <i>Entropy</i> , 2019, 21, 256.	1.1	8
15	Wavelet based fuzzy rule bases in pre-qualification of access networks' wire pairs. , 2015, , .		7
16	Adaptive local refinement of the electron density, one-particle density matrices, and electron orbitals by hierarchical wavelet decomposition. <i>Journal of Chemical Physics</i> , 2005, 123, 144107.	1.2	6
17	Ultrasonic Sensor Fusion Inverse Algorithm for Visually Impaired Aiding Applications. <i>Sensors</i> , 2020, 20, 3682.	2.1	5
18	Applicability of various wavelet families in fuzzy classification of access networks' telecommunication lines. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Improved Method for Predicting the Performance of the Physical Links in Telecommunications Access Networks. Complexity, 2018, 2018, 1-14.	0.9	3
20	Fuzzy Hough transformation in aiding computer tomography based liver diagnosis. , 2019, , .		3
21	On Metrics Used in Colonoscopy Image Processing for Detection of Colorectal Polyps. Smart Innovation, Systems and Technologies, 2021, , 137-151.	0.5	3
22	Application of Structural Entropy and Spatial Filling Factor in Colonoscopy Image Classification. Entropy, 2021, 23, 936.	1.1	3
23	Fuzzy rulebase parameter determination for stabilized KH interpolation based detection of colorectal polyps on colonoscopy images. , 2020, , .		3
24	On classical and fuzzy Hough transform in colonoscopy image processing. , 2021, , .		3
25	Local expansion of N-representable one-particle density matrices yielding a prescribed electron density. Journal of Chemical Physics, 2003, 119, 8257-8265.	1.2	2
26	The kinetic energy operator in the subspaces of wavelet analysis. Journal of Mathematical Chemistry, 2009, 46, 261-282.	0.7	2
27	On wavelet based modeling of radio frequency circuits, parts and electromagnetic fiels. , 2010, , .		2
28	The coupled cluster method and entanglement in three fermion systems. Journal of Mathematical Physics, 2017, 58, 012203.	0.5	2
29	Interpolative decisions in the fuzzy signature based image classification for liver CT. , 2021, , .		2
30	On optimization of active contour methods in colonoscopy image segmentation. Image Analysis and Stereology, 2022, 41, .	0.4	2
31	Artifacts of grid-based electron structure calculations. Chemical Physics Letters, 2008, 464, 103-106.	1.2	1
32	Fractal properties of AlGeNi layers on GaAs surfaces. Vacuum, 2009, 84, 251-253.	1.6	1
33	Error estimation of wavelet based modeling of electromagnetic waves in waveguides and resonators. , 2012, , .		1
34	Plausible quantum-mechanical interpretations of RHEED oscillation. Vacuum, 2012, 86, 620-622.	1.6	1
35	Some remarks on comparing microgeometrical profiles and the application of replicas in microgeometrical measurements. Surface Topography: Metrology and Properties, 2018, 6, 045001.	0.9	1
36	On Wavelet Based Enhancing Possibilities of Fuzzy Classification Methods. Advances in Intelligent Systems and Computing, 2020, , 56-73.	0.5	1

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37	The Effects of Preprocessing on Colorectal Polyp Detecting by Fuzzy Algorithm. Studies in Fuzziness and Soft Computing, 2021, , 347-357.	0.6	1
38	Some remarks to the nanowires grown on III-V substrate. , 2008, , .		0
39	A study of two-qubit density matrices with fermionic purifications. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 505304.	0.7	0
40	Fractal and structural entropy calculations on the epitaxially grown fulleren structures with the help of image processing. , 2009, , .		0
41	Wavelet analysis and finite difference modeling of multiple reflections in transmission lines. , 2012, , .		0
42	Optimization of the prediction of second refined wavelet coefficients in electron structure calculations. Open Physics, 2016, 14, 643-650.	0.8	0
43	Multiresolution modeling of cavity resonators in microwave systems. , 2016, , .		0
44	Intelligent Wavelet Based Pre-Filtering Method for Ultrasonic Sensor Fusion Inverse Algorithm Performance Optimization. Inventions, 2021, 6, 30.	1.3	0
45	On Combination of Wavelet Transformation and Stabilized KH Interpolation for Fuzzy Inferences Based on High Dimensional Sampled Functions. Studies in Computational Intelligence, 2018, , 31-42.	0.7	0
46	On the Antecedent Sets for Fuzzy Classification of Colorectal Polyps with Stabilized KH Interpolation. Studies in Computational Intelligence, 2019, , 23-33.	0.7	0
47	Wavelet Analysis and Structural Entropy Based Intelligent Classification Method for Combustion Engine Cylinder Surfaces. Studies in Computational Intelligence, 2019, , 127-138.	0.7	0
48	Applying Fuzzy Hough Transform for Identifying Honed Microgeometrical Surfaces. Studies in Computational Intelligence, 2020, , 35-42.	0.7	0