

# Levente J Klein

## List of Publications by Year in descending order

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47  
papers

1,408  
citations

394421

19  
h-index

377865

34  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1581  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastically relaxed free-standing strained-silicon nanomembranes. <i>Nature Materials</i> , 2006, 5, 388-393.	27.5	230
2	Controllable valley splitting in silicon quantum devices. <i>Nature Physics</i> , 2007, 3, 41-45.	16.7	218
3	Spin blockade and lifetime-enhanced transport in a few-electron Si/SiGe double quantum dot. <i>Nature Physics</i> , 2008, 4, 540-544.	16.7	148
4	Spin-Based Quantum Dot Quantum Computing in Silicon. <i>Quantum Information Processing</i> , 2004, 3, 133-146.	2.2	83
5	Single-electron quantum dot in Si <sup>+</sup> SiGe with integrated charge sensing. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	72
6	Coulomb blockade in a silicon/silicon-germanium two-dimensional electron gas quantum dot. <i>Applied Physics Letters</i> , 2004, 84, 4047-4049.	3.3	55
7	PAIRS: A scalable geo-spatial data analytics platform. , 2015, , .		46
8	Enhanced thermal emission from individual antenna-like nanoheaters. <i>Optics Express</i> , 2007, 15, 11249.	3.4	43
9	Silicon nanowire piezoresistance: Impact of surface crystallographic orientation. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	41
10	Coulomb blockade and Kondo effect in a few-electron silicon/silicon-germanium quantum dot. <i>Applied Physics Letters</i> , 2007, 90, 033103.	3.3	34
11	Single electron tunneling detected by electrostatic force. <i>Applied Physics Letters</i> , 2001, 79, 1828-1830.	3.3	33
12	Closed Loop Controlled Precision Irrigation Sensor Network. <i>IEEE Internet of Things Journal</i> , 2018, 5, 4580-4588.	8.7	30
13	Quantum dots in Si/SiGe 2DEGs with Schottky top-gated leads. <i>New Journal of Physics</i> , 2005, 7, 246-246.	2.9	28
14	Magnetotransport through two dimensional electron gas in a tubular geometry. <i>Applied Physics Letters</i> , 2007, 90, 042101.	3.3	28
15	Sub-wavelength bolometers: Uncooled platinum wires as infrared sensors. <i>Optics Express</i> , 2011, 19, 8721.	3.4	28
16	Wireless Sensor Platform for Cultural Heritage Monitoring and Modeling System. <i>Sensors</i> , 2017, 17, 1998.	3.8	28
17	Thermal radiation spectra of individual subwavelength microheaters. <i>Physical Review B</i> , 2008, 78, .	3.2	24
18	Pauli spin blockade and lifetime-enhanced transport in a Si/SiGe double quantum dot. <i>Physical Review B</i> , 2010, 82, .	3.2	23

#	ARTICLE	IF	CITATIONS
19	IBM PAIRS curated big data service for accelerated geospatial data analytics and discovery. , 2016, , .		22
20	Field Deployment of a Portable Optical Spectrometer for Methane Fugitive Emissions Monitoring on Oil and Gas Well Pads. Sensors, 2019, 19, 2707.	3.8	22
21	Single-electron tunneling to insulator surfaces detected by electrostatic force. Applied Physics Letters, 2002, 81, 4589-4591.	3.3	21
22	Drone-based reconstruction for 3D geospatial data processing. , 2016, , .		16
23	Coherence properties of infrared thermal emission from heated metallic nanowires. Applied Physics Letters, 2008, 92, 213102.	3.3	15
24	Quantum dots and etch-induced depletion of a silicon two-dimensional electron gas. Journal of Applied Physics, 2006, 99, 023509.	2.5	13
25	Changing the emission of polarized thermal radiation from metallic nanoheaters. Optics Express, 2009, 17, 17963.	3.4	12
26	Effect of Relative Humidity, Temperature and Gaseous and Particulate Contaminations on Information Technology Equipment Reliability. , 2015, , .		11
27	Change Detection from Remote Sensing to Guide OpenStreetMap Labeling. ISPRS International Journal of Geo-Information, 2020, 9, 427.	2.9	10
28	Next-generation geospatial-temporal information technologies for disaster management. IBM Journal of Research and Development, 2020, 64, 5:1-5:12.	3.1	10
29	Electron tunneling detected by electrostatic force. Applied Physics Letters, 2000, 77, 3615-3617.	3.3	7
30	Modeling and experimental investigation of cantilever dynamics in force detected single electron tunneling. Journal of Applied Physics, 2004, 95, 2547-2556.	2.5	6
31	Sidewall damage in plasma etching of Si/SiGe heterostructures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 836-843.	2.1	6
32	Corrosion risk management in IT facilities. , 2012, , .		6
33	N-dimensional geospatial data and analytics for critical infrastructure risk assessment. , 2019, , .		5
34	AutoGeoLabel: Automated Label Generation for Geospatial Machine Learning. , 2021, , .		5
35	Anisotropic fluorocarbon plasma etching of Si <sup>δ</sup> -SiGe heterostructures. Journal of Vacuum Science & Technology B, 2007, 25, 404.	1.3	4
36	A tele-operative RMMT system facilitating the management of cooling and energy in data centers. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
37	Sustainable data centers powered by renewable energy. , 2012, , .		4
38	Top-gated few-electron double quantum dot in Si/SiGe. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 520-523.	2.7	3
39	Condensation risk in a partially air side economized data center. , 2016, , .		3
40	Humidity Control and Dew Point Management. , 2011, , .		2
41	Si/SiGe Quantum Devices, Quantum Wells, and Electron-Spin Coherence. Topics in Applied Physics, 2009, , 101-127.	0.8	2
42	Instability induced tunneling and repeatable charge injection to SiO <sub>2</sub> surfaces by electrostatic force microscopy. Journal of Applied Physics, 2004, 96, 3328-3333.	2.5	1
43	Phonon Transport and Thermoelectricity in Silicon Nanostructures. ECS Transactions, 2009, 16, 983-988.	0.5	1
44	Thin-film platinum nanowires as sub-wavelength bolometers. Proceedings of SPIE, 2012, , .	0.8	1
45	Concealable strain sensing method for art preservation. Applied Physics A: Materials Science and Processing, 2014, 115, 829-836.	2.3	1
46	Discrete Control of Air Conditioning Units in Mission Critical Facilities. , 2015, , .		1
47	Energy Efficiency and Air Quality Considerations in Airside Economized Data Centers. , 2015, , .		1