

# Seong-Joo Lee

## List of Publications by Year in descending order

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23  
papers

279  
citations

840776

11  
h-index

888059

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overhauser proton spin-echo magnetometer for magnetic fields below 1 $\mu$ T. Metrologia, 2019, 56, 045011.	1.2	2
2	Dynamic nuclear polarisation of liquids at one microtesla using circularly polarised RF with application to millimetre resolution MRI. Journal of Magnetic Resonance, 2019, 305, 138-145.	2.1	4
3	SQUID-based ultralow-field MRI of a hyperpolarized material using signal amplification by reversible exchange. Scientific Reports, 2019, 9, 12422.	3.3	21
4	In-situ Overhauser-enhanced nuclear magnetic resonance at less than 1 $\mu$ T using an atomic magnetometer. Journal of Magnetic Resonance, 2019, 300, 149-152.	2.1	12
5	Toward a magnetic resonance electrical impedance tomography in ultra-low field: A direct magnetic resonance imaging method by an external alternating current. Applied Physics Letters, 2018, 112, 153703.	3.3	5
6	$\langle$ mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"> $\rangle$ Measurement of <i>Ex-Vivo</i> Breast Cancer Tissues at Ultralow Magnetic Fields. BioMed Research International, 2015, 2015, 1-9.	1.9	7
7	Superconductors in SQUID-Based Ultralow Field NMR Flux-Trapping in Type-II Wires. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	4
8	Dynamic nuclear polarization in the hyperfine-field-dominant region. Journal of Magnetic Resonance, 2015, 255, 114-121.	2.1	9
9	Magnetic resonance imaging without field cycling at less than earth's magnetic field. Applied Physics Letters, 2015, 106, 103702.	3.3	7
10	Proton spin-echo magnetometer: a novel approach for magnetic field measurement in residual field gradient. Metrologia, 2015, 52, 496-501.	1.2	8
11	Type-I superconductor pick-up coil in superconducting quantum interference device-based ultra-low field nuclear magnetic resonance. Applied Physics Letters, 2014, 104, .	3.3	20
12	Toward a brain functional connectivity mapping modality by simultaneous imaging of coherent brainwaves. NeuroImage, 2014, 91, 63-69.	4.2	19
13	Two-dimensional NMR spectroscopy of $^{13}\text{C}$ methanol at less than 5 $\mu$ T. Journal of Magnetic Resonance, 2014, 246, 4-8.	2.1	15
14	Strong pulsed excitations using circularly polarized fields for ultra-low field NMR. Journal of Magnetic Resonance, 2014, 239, 87-90.	2.1	22
15	Postmortem analysis of a failed liquid nitrogen-cooled prepolarization coil for SQUID sensor-based ultra-low field magnetic resonance. Progress in Superconductivity and Cryogenics (PSAC), 2014, 16, 44-48.	0.3	0
16	Development and Applications of SQUIDs in Korea. IEICE Transactions on Electronics, 2013, E96.C, 307-312.	0.6	0
17	Evaluation of cancellation coil for precision magnetic measurements with strong prepolarization field inside shielded environment. Journal of Applied Physics, 2012, 111, 083916.	2.5	11
18	Effective cancellation of residual magnetic interference induced from a shielded environment for precision magnetic measurements. Applied Physics Letters, 2011, 99, 132506.	3.3	19

#	ARTICLE	IF	CITATIONS
19	Application of the double relaxation oscillation superconducting quantum interference device sensor to micro-tesla 1H nuclear magnetic resonance experiments. Journal of Applied Physics, 2011, 110, .	2.5	9
20	Pre-polarization enhancement by dynamic nuclear polarization in SQUID-based ultra-low-field nuclear magnetic resonance. Superconductor Science and Technology, 2010, 23, 115008.	3.5	17
21	Spin Canting of Maghemite Studied by NMR and In-Field Mössbauer Spectrometry. Journal of Physical Chemistry C, 2010, 114, 8794-8799.	3.1	43
22	Superparamagnetic behaviour of reentrant weak-ferromagnetic phase in haematite crystal at low temperatures. New Journal of Physics, 2009, 11, 023020.	2.9	4
23	The spin structure of maghemite investigated by $^{57}\text{Fe}$ NMR. New Journal of Physics, 2006, 8, 98-98.	2.9	21