

## General Rotational Seismology

Title	Disclosure	Date	Permalink	Freely available
Rotation, Strain, and Translation Sensors Performance Tests with Active Seismic Sources	Sensors 2021, 21	January 2021	<a href="https://doi.org/10.3390/s21010264">https://doi.org/10.3390/s21010264</a>	Yes
Noise Analysis of a Passive Resonant Laser Gyroscope	Sensors 2020, 20	September 2020	<a href="https://doi.org/10.3390/s20185369">https://doi.org/10.3390/s20185369</a>	yes
Seismological Processing of Six Degree-of-Freedom Ground-Motion Data	Sensors 2020, 20	December 2020	<a href="https://doi.org/10.3390/s20236904">https://doi.org/10.3390/s20236904</a>	Yes
Measurements of Rotational Events Generated by Artificial Explosions and External Excitations Using the Optical Fiber Sensors Network	Sensors 2020, 20	October 2020	<a href="https://doi.org/10.3390/s20216107">https://doi.org/10.3390/s20216107</a>	Yes
Single-station seismic microzonation using 6C measurements	Journal of Seismology	Aug 2020	DOI: <a href="https://doi.org/10.1007/s10950-020-09944-1">10.1007/s10950-020-09944-1</a>	yes
Six Degree-of-Freedom Broadband Ground-Motion Observations with Portable Sensors: Validation, Local Earthquakes, and Signal Processing	Bulletin of the Seismological Society of America (2020) 110 (3): 953–969.	May 2020	<a href="https://pubs.geoscienceworld.org/ssa/bssa/article-abstract/110/3/953/586253/Six-Degree-of-Freedom-Broadband-Ground-Motion?redirectedFrom=fulltext">https://pubs.geoscienceworld.org/ssa/bssa/article-abstract/110/3/953/586253/Six-Degree-of-Freedom-Broadband-Ground-Motion?redirectedFrom=fulltext</a>	no
Rotation and Strain Instrument Performance Tests with Active Seismic Sources	EGU 2020	May 2020	<a href="https://meetingorganizer.copernicus.org/EGU2020/EGU2020-4256.html">https://meetingorganizer.copernicus.org/EGU2020/EGU2020-4256.html</a>	no
Multiple 6C-station Huddle Test in Fürstfeldbruck, German	EGU 2020	May 2020	<a href="https://www.researchgate.net/publication/342159476_Multiple_6C-station_Huddle_Test_in_Furstenfeldbruck_Germany">https://www.researchgate.net/publication/342159476_Multiple_6C-station_Huddle_Test_in_Furstenfeldbruck_Germany</a>	no
Rotational Instrument Performance Tests at the Geophysical Observatory in Fürstfeldbruck, Germany	DGG	March 2020	<a href="https://www.researchgate.net/publication/343166920_Global_quieting_of_high-frequency_seismic_noise_due_to_COVID-19_pandemic_lockdown_measures">https://www.researchgate.net/publication/343166920_Global_quieting_of_high-frequency_seismic_noise_due_to_COVID-19_pandemic_lockdown_measures</a>	yes

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Six-Axis Ground Motion Measurements of Caldera Collapse at Kīlauea Volcano, Hawai'i—More Data, More Puzzles?	Geophysical research letter	Feb 2020	<a href="https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019GL085999">https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019GL085999</a>	no
Rotational Instrument Performance Tests at the Geophysical Observatory in Fürstfeldbruck, Germany	Conference: 80. Jahrestagung der Deutschen Geophysikalischen Gesellschaft At: Munich, Germany	March 2020	<a href="https://www.researchgate.net/publication/342159618_Rotational_Instrument_Performance_Tests_at_the_Geophysical_Observatory_in_Furstenfeldbruck_Germany">https://www.researchgate.net/publication/342159618_Rotational_Instrument_Performance_Tests_at_the_Geophysical_Observatory_in_Furstenfeldbruck_Germany</a>	yes
Earthquake rupture tracking with six degree-of-freedom ground motion observations: a synthetic proof of concept	preprint	Jan 2020	DOI: <a href="https://doi.org/10.31223/osf.io/56bpj">10.31223/osf.io/56bpj</a>	no
6C Recording at Active Volcanoes	AGU 19	2019	<a href="https://www.researchgate.net/publication/338393529_6C_Recording_at_Active_Volcanoes">https://www.researchgate.net/publication/338393529_6C_Recording_at_Active_Volcanoes</a>	no abstract only
“Lord of the ring” (about ROMY)	Science Magazine Paper	2017	<a href="http://science.sciencemag.org/content/356/6335/236">http://science.sciencemag.org/content/356/6335/236</a>	no
Advances in 6C seismology: Applications of combined translational and rotational motion measurements in global and exploration seismology	Geophysics	2018	DOI: <a href="https://doi.org/10.1190/geo2017-0492.1">10.1190/geo2017-0492.1</a>	yes
6-C polarization analysis using point measurements of translational and rotational ground-motion: theory and applications	Geoph. Journal Internat Paper	2018	<a href="https://doi.org/10.1093/gji/ggx542">https://doi.org/10.1093/gji/ggx542</a>	no
Spatial wavefield gradient-based seismic wavefield separation	Geoph. Journal Internat Paper	2017	<a href="https://doi.org/10.1093/gji/ggx499">https://doi.org/10.1093/gji/ggx499</a>	no
Inversion for seismic moment tensors combining translational and rotational ground motions	Geoph. Journal Internat Paper	2016	<a href="https://doi.org/10.1093/gji/ggw298">https://doi.org/10.1093/gji/ggw298</a>	no
Toward a Single-Station Approach for Microzonation: Using Vertical Rotation Rate to Estimate Love-Wave Dispersion Curves and Direction Finding	BSSA Paper	2016	<a href="https://doi.org/10.1785/0120150250">https://doi.org/10.1785/0120150250</a>	no
The potential of rotational ground motion observations for seismology	French Embassy in China slides	2017	no	yes
Elastic passive source localization using rotational motion	Geoph. Journal Internat Paper	2017	<a href="https://doi.org/10.1093/gji/ggx364">https://doi.org/10.1093/gji/ggx364</a>	no
Reducing non-uniqueness in finite source inversion using rotational ground motions	Journal Geophysical	2014	<a href="https://doi.org/10.1002/2014JB011042">https://doi.org/10.1002/2014JB011042</a>	no

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	research paper			
Tilt Motion Effects on the Double-Time Integration of Linear Accelerometers: An Experimental Approach	BSSA paper	2006	<a href="https://doi.org/10.1785/0120050167">https://doi.org/10.1785/0120050167</a>	no
The effects of seismic rotations on inertial sensors	Geoph.Journal.International Paper	2007	<a href="https://doi.org/10.1111/j.1365-246X.2007.03617.x">https://doi.org/10.1111/j.1365-246X.2007.03617.x</a>	yes

## Exploration

Title	Disclosure	Date	Permalink	Freely available
Exploring planets and asteroids with 6DoF sensors: Utopia and realism	Earth Planets and Space 72	December 2020	DOI: 10.1186/s40623-020-01333-9	Yes
Advances in 6-C seismology: applications of combined translational and rotational motion measurements in global and exploration seismology	SEG Paper	2018	<a href="https://doi.org/10.1190/geo2017-0492.1">https://doi.org/10.1190/geo2017-0492.1</a>	no
Spatial wavefield gradient-based seismic wavefield separation	Geoph.Journal.International Paper	2017	<a href="https://doi.org/10.1093/gji/ggx499">https://doi.org/10.1093/gji/ggx499</a>	no
Comparison of direct rotational-motion measurements and array-derived rotations during a 3D seismic-exploration campaign – the Rot3D experiment	EGU Slides	2018		no abstract only
Single-component elastic wavefield separation at the free surface using source and receiver side gradients	SEG paper	2016	<a href="https://doi.org/10.1190/segam2016-13842637.1">https://doi.org/10.1190/segam2016-13842637.1</a>	no
Seismic spatial wavefield gradient and rotational rate measurements as new observables in land seismic exploration	EGU Slides	2016	<a href="http://meetingorganizer.copernicus.org/EGU2016/EGU2016-3787.pdf">http://meetingorganizer.copernicus.org/EGU2016/EGU2016-3787.pdf</a>	no abstract only

## Ocean-bottom system

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Title	Disclosure	Date	Permalink	Freely available
Sea-floor ground rotation observations: potential for improving signal-to-noise ratio on horizontal OBS components	SRL paper	2016	<a href="https://doi.org/10.1785/0220160051">https://doi.org/10.1785/0220160051</a>	no
Interpretation of broadband ocean-bottom seismometer horizontal data seismic background noise	BSSA paper	2009	<a href="https://doi.org/10.1785/0120080123">https://doi.org/10.1785/0120080123</a>	no

## Volcanology

Title	Disclosure	Date	Permalink	Freely available
Tilt Effects on Moment Tensor Inversion in the Nearfield of Active Volcanoes	Geoph.Journal.International Paper	2015	<a href="https://doi.org/10.1093/gji/ggv209">https://doi.org/10.1093/gji/ggv209</a>	no

## BlueSeis-3A

Title	Disclosure	Date	Permalink	Freely available
BlueSeis3A -full characterization of a 3C broadband rotational seismometer	SRL paper	2018	<a href="https://doi.org/10.1785/0220170143">https://doi.org/10.1785/0220170143</a>	no
BlueSeis3A - performance, laboratory tests and applications	AGU slides	2017	no	yes
The Fibre Optic Gyroscope - a Portable Rotational Ground Motion Sensor	AGU slides	2016	no	yes
BlueSeis3A - full characterization of a 3C broadband rotational ground motion sensor for seismology	EGU slides	2017	no	yes

## Seismometers alignment

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Mantle lithosphere transition from the East European Craton to the Variscan Bohemian Massif imaged by shear-wave splitting	Solid Earth paper	2014	<a href="https://doi.org/10.5194/se-5-779-2014">https://doi.org/10.5194/se-5-779-2014</a>	yes
Seismic Sensor Misorientation Measurement Using P-Wave Particle Motion: An Application to the NECsaids Array	SRL paper	2016	<a href="https://doi.org/10.1785/0220160005">https://doi.org/10.1785/0220160005</a>	no
Seismic station installation orientation errors at ANSS and IRIS/USGS stations	SRL paper	2013	<a href="https://www.researchgate.net/publication/270463974_Seismic_station_installation_orientation_errors_at_ANSS_and_IRISUSGS_stations">https://www.researchgate.net/publication/270463974_Seismic_station_installation_orientation_errors_at_ANSS_and_IRISUSGS_stations</a>	yes
Measurements of Seismometer Orientation at USArray Transportable Array and Backbone Stations	SRL paper	2008	<a href="https://doi.org/10.1785/gssrl.79.4.554">https://doi.org/10.1785/gssrl.79.4.554</a>	no
Seismometer North orientation	Website	2017	<a href="http://nnsn.geo.uib.no/eworkshop/index.php?n=Main.Orientation">http://nnsn.geo.uib.no/eworkshop/index.php?n=Main.Orientation</a>	yes

## Building Monitoring

Title	Disclosure	Date	Permalink	Freely available
Comparing Direct Observation of Torsion with Array-Derived Rotation in Civil Engineering Structures	Sensors 21	December 2020	DOI: 10.3390/s21010142	Yes
Application of Rotation Rate Sensors in Modal and Vibration Analyses of Reinforced Concrete Beams	Sensors 2020, 20	August 2020	<a href="https://doi.org/10.3390/s20174711">https://doi.org/10.3390/s20174711</a>	Yes

\* Freely available column means that corresponding documents can be found on internet.

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