

Michael S Zhdanov

List of Publications by Year in descending order

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411
papers

5,631
citations

117453

34
h-index

102304

66
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422
all docs

422
docs citations

422
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative inversion of multiphysics data using joint minimum entropy constraints. <i>Near Surface Geophysics</i> , 2022, 20, 623-636.	0.6	2
2	Three-Dimensional Gravity Inversion in the Presence of the Sediment-Basement Interface: A Case Study in Utah, USA. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 448.	0.8	1
3	Joint focusing inversion of marine controlled-source electromagnetic and full tensor gravity gradiometry data. <i>Geophysics</i> , 2022, 87, K35-K47.	1.4	4
4	Least Squares Migration of Synthetic Aperture Data for Towed Streamer Electromagnetic Survey. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 97-101.	1.4	6
5	Contraction operator transformation for the complex heterogeneous Helmholtz equation. <i>Computers and Mathematics With Applications</i> , 2021, 86, 63-72.	1.4	4
6	Recovering Magnetization of Rock Formations by Jointly Inverting Airborne Gravity Gradiometry and Total Magnetic Intensity Data. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 366.	0.8	11
7	Joint Gramian inversion of geophysical data with different resolution capabilities: case study in Yellowstone. <i>Geophysical Journal International</i> , 2021, 226, 1058-1085.	1.0	7
8	Advanced Methods of Joint Inversion of Multiphysics Data for Mineral Exploration. <i>Geosciences (Switzerland)</i> , 2021, 11, 262.	1.0	9
9	Editorial for Special Issue "Geophysics for Mineral Exploration". <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 692.	0.8	3
10	Two-step approach to 3D gravity inversion: Case study in the State of Utah. , 2021, , .		0
11	Joint focusing inversion of marine controlled-source electromagnetic and full tensor gravity gradiometry data: Case study of the Nordkapp Basin in Barents Sea, Norway. , 2021, , .		1
12	Mapping the salt structures from magnetic and gravity gradiometry data in Nordkapp Basin, Barents Sea. , 2021, , .		3
13	Active geophysical monitoring of hydrocarbon reservoirs using electromagnetic methods. , 2020, , 69-95.		0
14	Joint iterative migration of surface and borehole gravity gradiometry data. , 2020, , 97-121.		2
15	Feasibility study of gravity gradiometry monitoring of CO2 sequestration in deep reservoirs using surface and borehole data. , 2020, , 123-140.		2
16	Maxwell's equations and numerical electromagnetic modeling in the context of the theory of differential forms. , 2020, , 245-267.		0
17	Three-dimensional electromagnetic holographic imaging in active monitoring of sea-bottom geoelectrical structures. , 2020, , 269-294.		0
18	Foundations of the method of electromagnetic field separation in upgoing and downgoing parts and its application to marine controlled source electromagnetic data. , 2020, , 295-321.		0

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19	Feasibility study of reservoir monitoring using the induced polarization effect associated with nanoparticles. , 2020, , 141-164.		0
20	Incorporating known petrophysical model in the seismic full-waveform inversion using the Gramian constraint. Geophysical Prospecting, 2020, 68, 1361-1378.	1.0	13
21	Enhancement and Sharpening the Migration Images of the Gravity Field and Its Gradients. Pure and Applied Geophysics, 2020, 177, 2853-2870.	0.8	13
22	Joint Gramian inversion of geophysical data with different resolution capabilities. , 2020, , .		2
23	Finite-element EM modelling on hexahedral grids with an FD solver as a pre-conditioner. Geophysical Journal International, 2020, 223, 840-850.	1.0	7
24	Spectral Induced Polarization Survey with Distributed Array System for Mineral Exploration: Case Study in Saudi Arabia. Minerals (Basel, Switzerland), 2020, 10, 769.	0.8	12
25	Focusing iterative migration of gravity gradiometry data acquired in the Nordkapp Basin, Barents Sea. Geophysical Prospecting, 2020, 68, 2292-2306.	1.0	11
26	Robust Synthetic Aperture Imaging of Marine Controlled-Source Electromagnetic Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5527-5539.	2.7	10
27	3D joint inversion of potential field data in the presence of remanent magnetization. , 2020, , .		1
28	Joint inversion of airborne electromagnetic and total magnetic intensity data using Gramian structural constraints: Case study of the Reid-Mahaffy test site in Ontario, Canada. , 2020, , .		0
29	Study of the Yellowstone crustal magmatic system with multiphysics data. , 2020, , .		0
30	Feasibility study of reservoir monitoring in an onshore oil field using SQUITEM system. , 2020, , .		0
31	Mineral exploration with 3-D controlled-source electromagnetic method: a synthetic study of Sukhoi Log gold deposit. Geophysical Journal International, 2019, 219, 1698-1716.	1.0	13
32	The Gramian Method of Joint Inversion of the Gravity Gradiometry and Seismic Data. Pure and Applied Geophysics, 2019, 176, 1659-1672.	0.8	10
33	Imaging Yellowstone magmatic system by the joint Gramian inversion of gravity and magnetotelluric data. Physics of the Earth and Planetary Interiors, 2019, 292, 12-20.	0.7	11
34	Inductive coupling in IP measurements and applications to 3D distributed array field data inversion. , 2019, , .		0
35	From airborne to effective-medium spectral IP mineral exploration: A case study in Saudi Arabia. , 2019, , .		0
36	Enhancing and sharpening the migration images of gravity field and its gradients. , 2019, , .		1

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37	Joint inversion of gravity gradiometry data by model-weighted clustering in logarithmic space. , 2019, ,		0
38	Least square migration of synthetic aperture data for towed streamer electromagnetic survey. , 2019, ,		0
39	Complex resistivity of mineral rocks in the context of the generalised effectiveâ€medium theory of the induced polarisation effect. Geophysical Prospecting, 2018, 66, 798-817.	1.0	12
40	Acoustic 3D modeling by the method of integral equations. Computers and Geosciences, 2018, 111, 223-234.	2.0	13
41	Electromagnetic Methods in the Frequency and Time Domains. , 2018, , 585-623.		0
42	Electromagnetic Fields in Inhomogeneous Media. , 2018, , 201-266.		5
43	Principles of Ill-Posed Inverse Problem Solution. , 2018, , 269-287.		1
44	Electromagnetic Inversion. , 2018, , 289-316.		2
45	Electromagnetic Migration. , 2018, , 317-349.		0
46	Electromagnetic Properties of Rocks and Minerals. , 2018, , 353-400.		2
47	Direct Current and Induced Polarization Methods. , 2018, , 439-493.		2
48	Magnetotelluric and Magnetovariational Methods. , 2018, , 495-584.		2
49	Marine Electromagnetic Methods. , 2018, , 625-662.		0
50	Airborne Electromagnetic Methods. , 2018, , 663-681.		0
51	Joint iterative migration of surface and borehole gravity gradiometry data. , 2018, , ,		1
52	Effective-Medium Inversion of Induced Polarization Data for Mineral Exploration and Mineral Discrimination: Case Study for the Copper Deposit in Mongolia. Minerals (Basel, Switzerland), 2018, 8, 68.	0.8	10
53	Modelling the wave phenomena in acoustic and elastic media with sharp variations of physical properties using the gridâ€characteristic method. Geophysical Prospecting, 2018, 66, 1485-1502.	1.0	54
54	Large-Scale 3D Modeling and Inversion of Multiphysics Airborne Geophysical Data: A Case Study from the Arabian Shield, Saudi Arabia. Minerals (Basel, Switzerland), 2018, 8, 271.	0.8	15

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55	Migration of Elastic Wavefield Using Adjoint Operator and Born Approximation. Smart Innovation, Systems and Technologies, 2018, , 219-240.	0.5	1
56	Migration of Elastic Fields Based on Kirchhoff and Rayleigh Integrals. Smart Innovation, Systems and Technologies, 2018, , 241-265.	0.5	3
57	Joint inversion of multimodal data using focusing stabilizers and Gramian constraints. , 2018, , .		4
58	Joint multinary inversion of gravity and magnetic data using Gramian constraints. , 2018, , .		8
59	Joint 3D inversion of gravity and MT data using Gramian constraints: A case study from Yellowstone. , 2018, , .		0
60	Robust optimal synthetic aperture imaging of towed streamer electromagnetic data. , 2018, , .		1
61	Feasibility study of gravity gradiometry monitoring of CO2 sequestration in deep reservoirs using surface and borehole data. , 2018, , .		1
62	Rapid Imaging of Towed Streamer EM Data Using the Optimal Synthetic Aperture Method. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 262-266.	1.4	8
63	Approximate solutions of acoustic 3D integral equation and their application to seismic modeling and full-waveform inversion. Journal of Computational Physics, 2017, 346, 318-339.	1.9	17
64	Joint Inversion of Gravity and Magnetotelluric Data for the Depth-to-Basement Estimation. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1228-1232.	1.4	16
65	Finite-element time-domain modeling of electromagnetic data in general dispersive medium using adaptive Pad� series. Computers and Geosciences, 2017, 109, 194-205.	2.0	34
66	Inversion of magnetotelluric data using integral equation approach with variable sensitivity domain: Application to EarthScope MT data. Physics of the Earth and Planetary Interiors, 2017, 270, 113-127.	0.7	16
67	Adaptive multinary inversion of gravity and gravity gradiometry data. Geophysics, 2017, 82, G101-G114.	1.4	31
68	3D inversion of the time-domain electromagnetic data for exploration of submarine hydrothermal deposits using the GEMTIP model. , 2017, , .		0
69	Application of the optimal synthetic aperture for rapid imaging of towed streamer electromagnetic data acquired in the Barents Sea. , 2017, , .		0
70	Regularized Gauss-Newton method of nonlinear geophysical inversion in the data space: Applications to 3D magnetotelluric inversion. , 2017, , .		1
71	Joint inversion of seismic and gravity gradiometry data using Gramian constraints. , 2017, , .		3
72	Finite-element time-domain electromagnetic modeling with induced-polarization effects using adaptive Pad� series. , 2017, , .		0

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73	3D Inversion of the MT EarthScope Data, Collected Over the East Central United States. Geophysical Research Letters, 2017, 44, 11,800.	1.5	15
74	Continental-scale joint inversion of Alaska and Yukon gravity and magnetic data. First Break, 2017, 35, .	0.2	3
75	Joint iterative migration of surface and borehole gravity gradiometry data. , 2016, , .		7
76	Contraction preconditioner in finite-difference electromagnetic modeling. , 2016, , .		1
77	Effective-medium modeling of the induced-polarization effect in multiphase artificial mineral rocks. , 2016, , .		0
78	3d inversion of gravity and gravity gradiometry data using multinary transformation of the model parameters. , 2016, , .		0
79	Effective-medium inversion of induced-polarization data for mineral exploration and mineral discrimination: Case study for the copper deposit in Mongolia. , 2016, , .		0
80	3D inversion of the towed streamer EM data using the seismic constraints. , 2016, , .		0
81	A hybrid finite-difference and integral-equation method for modeling and inversion of marine controlled-source electromagnetic data. Geophysics, 2016, 81, E323-E336.	1.4	44
82	Complex resistivity of mineral rocks in the context of the generalized effective-medium theory of the IP effect. , 2016, , .		4
83	Electromagnetics and Magnetotellurics. , 2016, , .		0
84	Rapid imaging of towed streamer EM data for reconnaissance offshore exploration using the optimal synthetic aperture method. , 2016, , .		0
85	Large-scale parallel 3D inversion of frequency and time-domain AEM data. , 2016, , .		0
86	Contraction pre-conditioner in finite-difference electromagnetic modelling. Geophysical Journal International, 2016, 206, 1718-1729.	1.0	15
87	Three-Dimensional Inversion of Magnetotelluric Data for the Sedimentâ€“Basement Interface. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	7
88	Redatuming controlled-source electromagnetic data using Strattonâ€“Chu type integral transformations. Journal of Applied Geophysics, 2016, 126, 1-12.	0.9	3
89	Applying OpenCL Technology for Modelling Seismic Processes Using Grid-Characteristic Methods. Communications in Computer and Information Science, 2016, , 577-588.	0.4	3
90	Large-scale seismically guided anisotropic inversion of towed-streamer EM data in the Barents Sea. First Break, 2016, 34, .	0.2	1

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91	Novel approach to joint 3D inversion of EM and potential field data using Gramian constraints. First Break, 2016, 34, .	0.2	1
92	Iterative migration of gravity and gravity gradiometry data at Bathurst Mining Camp. , 2016, , .		1
93	3D joint inversion of magnetotelluric and magnetovariational data to image conductive anomalies in Southern Alberta, Canada. , 2015, , .		2
94	Feasibility study of application of nanoparticles in complex resistivity (CR) reservoir monitoring. , 2015, , .		3
95	Advanced 3D imaging of complex geoelectrical structures using towed streamer EM data. , 2015, , .		1
96	Three-dimensional parallel edge-based finite element modeling of electromagnetic data with field re-datuming. , 2015, , .		3
97	Novel approach to joint 3D inversion of potential field data using Gramian constraints. , 2015, , .		1
98	Magnetotelluric inversion for depth-to-basement estimation. , 2015, , .		1
99	3D inversion of regional MT data distorted by near-surface inhomogeneities using a complex distortion matrix. , 2015, , .		6
100	Interpretation and Evaluation of Offshore Hydrocarbon Reservoir from Anisotropic 3D Inversion of Towed Streamer EM Data. , 2015, , .		0
101	Inversion of magnetotelluric data using integral equation approach with variable sensitivity domain. , 2015, , .		0
102	Joint inversion of airborne magnetic and electromagnetic data: case study in the Northwest Territories of Canada. , 2015, , .		1
103	Ill-Posed Problems and the Methods of Their Solution. , 2015, , 33-61.		4
104	Nonlinear Inversion Technique. , 2015, , 129-177.		1
105	Numerical Methods in Forward and Inverse Modeling of Geopotential Fields. , 2015, , 283-295.		0
106	Migration of 3-D Gravity, Gravity Tensor, and Total Magnetic Intensity Data. , 2015, , 261-281.		0
107	3-D EM Forward Modeling Using Balance Technique. , 2015, , 107-143.		0
108	3D Inversion of AEM Data Based on a Hybrid IE-FE Method and the Moving Sensitivity Domain Approach with a Direct Solver. , 2015, , .		4

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109	Differential Methods in Electromagnetic Modeling and Inversion. , 2015, , 441-475.		0
110	Resolution Analysis of Regularized Geophysical Inversion. , 2015, , 195-203.		0
111	Airborne Geophysics, Remote Sensing, UAV (Drone)-based Surveys and Mining Geophysics. , 2015, , .		0
112	GEMTIP inversion of complex resistivity data using a hybrid method based on a genetic algorithm with simulated annealing and regularized conjugate gradient method. , 2015, , .		5
113	Induced polarization effect in reservoir rocks and its modeling based on generalized effective-medium theory. Resource-efficient Technologies, 2015, 1, 34-48.	0.1	11
114	Application of Cauchy-type integrals in developing effective methods for depth-to-basement inversion of gravity and gravity gradiometry data. Geophysics, 2015, 80, G81-G94.	1.4	33
115	Three-Dimensional Cole-Cole Model Inversion of Induced Polarization Data Based on Regularized Conjugate Gradient Method. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1180-1184.	1.4	22
116	Large-scale 3D inversion of airborne electromagnetic data based on the hybrid IE-FE method and the moving sensitivity domain approach. , 2015, , .		0
117	Large-scale 3D inversion of Bathurst Mining Camp gravity gradiometry data. , 2015, , .		0
118	Modeling and Inversion of Magnetic Anomalies Caused by Sedimentâ€“Basement Interface Using Three-Dimensional Cauchy-Type Integrals. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 477-481.	1.4	11
119	Optimal Synthetic Aperture Method for Marine Controlled-Source EM Surveys. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 414-418.	1.4	17
120	A hybrid finite difference and integral equation method for modeling and inversion of marine CSEM data. , 2015, , .		2
121	Inversion of TMI data for the magnetization vector using Gramian constraints. , 2015, , .		4
122	Advanced 3D imaging of complex geoelectrical structures using towed streamer EM data over the Mariner field in the North Sea. First Break, 2015, 33, .	0.2	9
123	Integral Representations in Wavefield Theory. , 2015, , 527-549.		0
124	Integral Representations in Electromagnetic Inversion. , 2015, , 385-409.		0
125	Electromagnetic Migration Imaging. , 2015, , 411-440.		0
126	Integral Representations in Full Waveform Inversion. , 2015, , 551-614.		0

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127	Integral Representations in Electromagnetic Forward Modeling. , 2015, , 329-384.		0
128	Generalized Joint Inversion of Multimodal Data. , 2015, , 215-233.		0
129	Multinary Inversion. , 2015, , 179-193.		0
130	Integral Representations of 2-D Gravity and Magnetic Fields. , 2015, , 237-259.		0
131	Advanced 3D imaging of the off-shore hydrocarbon reservoirs from the towed streamer EM data. , 2015, , .		0
132	Novel Approach to Modelling Elastic Wavefields in Fractured Media. , 2015, , .		0
133	Large-scale 3D inversion of magnetotelluric data. , 2015, , .		0
134	Advanced methods of 3D inversion of towed streamer EM data for imaging offshore hydrocarbon reservoir. , 2015, , .		0
135	Anisotropic inversion of MCSEM data based on the integral equation method. , 2014, , .		5
136	Joint inversion of airborne gravity gradiometry and magnetic data from the Lac de Gras region of the Northwest Territories of Canada. , 2014, , .		3
137	Spectral induced polarization effect in unconventional reservoir rocks. , 2014, , .		1
138	Three-dimensional inversion of towed streamer electromagnetic data. Geophysical Prospecting, 2014, 62, 552-572.	1.0	21
139	Massively parallel regularized 3D inversion of potential fields on CPUs and GPUs. Computers and Geosciences, 2014, 62, 80-87.	2.0	49
140	3D airborne electromagnetic inversion using a hybrid edge-based FE-IE method with moving sensitivity domain. , 2014, , .		8
141	3D controlled-source electromagnetic modeling in anisotropic medium using edge-based finite element method. Computers and Geosciences, 2014, 73, 164-176.	2.0	94
142	Anisotropic 3D inversion of towed-streamer electromagnetic data: Case study from the Troll West Oil Province. Interpretation, 2014, 2, SH97-SH113.	0.5	33
143	Inversion of gravity data in the Big Bear Lake Area to recover depth to basement using Cauchy-type integrals. , 2014, , .		0
144	An optimal synthetic aperture method for the creation of directional sensitivity and removal of the airwave effect in MCSEM data. , 2014, , .		5

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145	3D inversion of borehole to surface electromagnetic data in a multiple reservoirs survey. , 2014, , .		4
146	Experimental Study of Induced Polarization Effect in Unconventional Reservoir Rocks. Geomaterials, 2014, 04, 117-128.	0.4	6
147	Feasibility study of the marine electromagnetic remote sensing (MEMRS) method for near-shore exploration. , 2013, , .		0
148	3-D Cauchy-type integrals for terrain correction of gravity and gravity gradiometry data. Geophysical Journal International, 2013, 194, 249-268.	1.0	20
149	Multinary Inversion for Tunnel Detection. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1100-1103.	1.4	22
150	Gramian constraints in the joint inversion of airborne gravity gradiometry and magnetic data. , 2013, , .		4
151	Joint 3D inversion of time- and frequency-domain airborne electromagnetic data. , 2013, , .		1
152	Iterative migration of gravity and gravity gradiometry data. , 2013, , .		20
153	Inversion of gravity and gravity gradiometry data for density contrast surfaces using Cauchy-type integrals. , 2013, , .		4
154	New approach to 3D inversion of MCSEM and MMT data using multinary model transform. , 2013, , .		1
155	Focusing Controlled Sensitivity of Geophysical Data. Journal of Geology & Geosciences, 2013, 02, , .	0.2	5
156	Redatuming of borehole-to-surface electromagnetic data at the Kevin Dome exploration site. , 2013, , .		1
157	Carbonate Reservoir Rocks Show Induced Polarization Effects, Based on Generalized Effective Medium Theory. , 2013, , .		2
158	Large-scale 3D integral equation based inversion of EarthScope MT data using a variable sensitivity domain. , 2013, , .		0
159	Feasibility study of electromagnetic monitoring of CO ₂ sequestration in deep reservoirs. , 2013, , .		0
160	3D joint inversion of geophysical data with Gramian constraints: A case study from the Carrapateena IOCG deposit, South Australia. The Leading Edge, 2012, 31, 1382-1388.	0.4	13
161	3D migration for rapid imaging of total-magnetic-intensity data. Geophysics, 2012, 77, J1-J5.	1.4	12
162	Laboratory-based GEMTIP analysis of spectral IP data for mineral discrimination. , 2012, , .		8

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163	Self-organizing maps for pseudo-lithological classification of 3D airborne electromagnetic, gravity gradiometry and magnetic inversions. ASEG Extended Abstracts, 2012, 2012, 1-4.	0.1	17
164	Inverting airborne geophysical data for mega-cell and giga-cell 3D Earth models. The Leading Edge, 2012, 31, 316-321.	0.4	10
165	3D inversion of airborne electromagnetic data. Geophysics, 2012, 77, WB59-WB69.	1.4	90
166	Generalized joint inversion of multimodal geophysical data using Gramian constraints. Geophysical Research Letters, 2012, 39, .	1.5	110
167	3D inversion of SPECTREM and ZTEM data from the Pebble Cu-Au-Mo porphyry deposit, Alaska. ASEG Extended Abstracts, 2012, 2012, 1-4.	0.1	2
168	3D inversion of SPECTREM and ZTEM airborne electromagnetic data from the Pebble Cu-Au-Mo porphyry deposit, Alaska. Exploration Geophysics, 2012, 43, 104-115.	0.5	10
169	3D magnetization vector inversion for SQUID-based full tensor magnetic gradiometry. , 2012, , .		2
170	3D inversion of AirMt AFMAG data. , 2012, , .		0
171	Large-scale 3D inversion of potential field data. Geophysical Prospecting, 2012, 60, 1186-1199.	1.0	79
172	Migration transformation of two-dimensional magnetic vector and tensor fields. Geophysical Journal International, 2012, 189, 1361-1368.	1.0	10
173	Reply to the discussion. Geophysics, 2012, 77, X7.	1.4	1
174	The first practical 3D inversion of towed streamer EM data from the Troll field trial. , 2012, , .		3
175	3D lithological inversion of geophysical data. , 2012, , .		1
176	3D Inversion of Full Tensor Magnetic Gradiometry Data for Remanent Magnetization. , 2012, , .		0
177	3D Inversion of Towed Streamer EM Data Using a Moving Sensitivity Domain. , 2012, , .		0
178	3D Inversion of Helicopter Time-domain Electromagnetic Data for Oil Sands Exploration near Fort McMurray, Alberta. , 2012, , .		0
179	Redatuming borehole-to-surface electromagnetic data using Stratton-Chu integral transforms. , 2012, , .		0
180	A new method of terrain correcting airborne gravity gradiometry data using 3D Cauchy-type integrals. , 2012, , .		0

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181	Joint 3D inversion of marine CSEM and MT data. , 2011, , .		3
182	Three-dimensional inversion of large-scale EarthScope magnetotelluric data based on the integral equation method: Geoelectrical imaging of the Yellowstone conductive mantle plume. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	48
183	Massively parallel 3D inversion of gravity and gravity gradiometry data. Preview, 2011, 2011, 29-34.	0.0	12
184	3D inversion of full tensor magnetic gradiometry (FTMG) data. , 2011, , .		3
185	Large-scale 3D inversion of marine magnetotelluric data: Case study from the Gemini prospect, Gulf of Mexico. Geophysics, 2011, 76, F77-F87.	1.4	46
186	Practical 3D Inversion of AEM Data for Environmental Applications in Complex Regolith Settings. , 2011, , .		1
187	High-frequency induced polarization measurements of hydrocarbon-bearing rocks. , 2011, , .		5
188	Iterative electromagnetic migration for 3D inversion of marine controlled-source electromagnetic data. Geophysical Prospecting, 2011, 59, 1101-1113.	1.0	7
189	Potential field migration for rapid imaging of gravity gradiometry data. Geophysical Prospecting, 2011, 59, 1052-1071.	1.0	34
190	Electromagnetic sounding of the Kola Peninsula with a powerful extremely low frequency source. Doklady Earth Sciences, 2011, 438, 711-716.	0.2	6
191	3D potential field migration for rapid imaging of gravity gradiometry data – A case study from Broken Hill, Australia, with comparison to 3D regularized inversion. , 2011, , .		2
192	Lithological classification of large-scale 3D inversion of airborne electromagnetic, gravity gradiometry, and magnetic data: A case study from Reid-Mahaffy, Ontario. , 2011, , .		1
193	Source characterization of atmospheric releases using stochastic search and regularized gradient optimization. Inverse Problems in Science and Engineering, 2011, 19, 1097-1124.	1.2	17
194	Controlled sensitivities for marine CSEM surveys. , 2011, , .		5
195	3D imaging of gravity gradiometry data from a single borehole using potential field migration. , 2011, , .		4
196	Large-scale 3D inversion of EarthScope MT data from the area surrounding Yellowstone National Park. , 2011, , .		0
197	3D inversion of towed streamer EM data – A model study of the Harding field and comparison to 3D CSEM inversion. , 2011, , .		1
198	3D inversion of time-lapse CSEM data based on dynamic reservoir simulations of the Harding field, North Sea. , 2011, , .		5

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199	3D Inversion of Time-lapse CSEM Data from Dynamic Reservoir Simulations of the Harding field, North Sea. , 2011, , .		0
200	Large-scale 3D Inversion of Airborne Potential Field Data. , 2011, , .		0
201	Large-scale 3D Inversion of EarthScope MT Data. , 2011, , .		0
202	Reply to the discussion. Geophysics, 2010, 75, X10-X11.	1.4	1
203	Efficient 3D inversion of MT data using integral equations method and the receiver footprint approach: application to the large-scale inversion of the EarthScope MT data. , 2010, , .		4
204	Advances in experimental research of induced polarization effect in reservoir rocks. , 2010, , .		5
205	Multiple inversion scenarios for enhanced interpretation of marine CSEM data using iterative migration: A case study for the Shtokman gas field, Barents Sea. , 2010, , .		0
206	3D focusing regularized inversion of marine transient electromagnetic data: A case study from the Alvheim field, North Sea. , 2010, , .		0
207	Rapid imaging of gravity gradiometry data using 2D potential field migration. , 2010, , .		2
208	Maxwell's Equations and Numerical Electromagnetic Modeling in the Context of the Theory of Differential Forms. Handbook of Geophysical Exploration: Seismic Exploration, 2010, , 299-324.	0.3	1
209	Active Geophysical Monitoring of Hydrocarbon Reservoirs Using EM Methods. Handbook of Geophysical Exploration: Seismic Exploration, 2010, , 135-159.	0.3	0
210	Foundations of the Method of EM Field Separation into Upgoing and Downgoing Parts and its Application to MCSEM Data. Handbook of Geophysical Exploration: Seismic Exploration, 2010, 40, 351-379.	0.3	2
211	Possibilities and problems of modern magnetotellurics. Izvestiya, Physics of the Solid Earth, 2010, 46, 648-654.	0.2	3
212	Joint three-dimensional inversion of magnetotelluric and magnetovariational data. Izvestiya, Physics of the Solid Earth, 2010, 46, 655-669.	0.2	5
213	Large-scale three-dimensional inversion of EarthScope MT data using the integral equation method. Izvestiya, Physics of the Solid Earth, 2010, 46, 670-678.	0.2	19
214	Study of the possibility of the use of the magnetotelluric sounding method in the Arctic ocean with quantitative modeling. Izvestiya, Physics of the Solid Earth, 2010, 46, 759-771.	0.2	4
215	Prospects of magnetotelluric sounding in some large structures in the Arctic ocean. Izvestiya, Physics of the Solid Earth, 2010, 46, 772-779.	0.2	0
216	3D inversion of airborne electromagnetic data using a moving footprint. Exploration Geophysics, 2010, 41, 250-259.	0.5	178

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