

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
g-index

422
all docs

422
docs citations

422
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Focusing geophysical inversion images. <i>Geophysics</i> , 1999, 64, 874-887.	1.4	542
2	3D magnetic inversion with data compression and image focusing. <i>Geophysics</i> , 2002, 67, 1532-1541.	1.4	288
3	Three-dimensional regularized focusing inversion of gravity gradient tensor component data. <i>Geophysics</i> , 2004, 69, 925-937.	1.4	195
4	3D inversion of airborne electromagnetic data using a moving footprint. <i>Exploration Geophysics</i> , 2010, 41, 250-259.	0.5	178
5	Contraction integral equation method in three-dimensional electromagnetic modeling. <i>Radio Science</i> , 2002, 37, 1-1-1-13.	0.8	170
6	Integral equation method for 3D modeling of electromagnetic fields in complex structures with inhomogeneous background conductivity. <i>Geophysics</i> , 2006, 71, G333-G345.	1.4	160
7	Methods for modelling electromagnetic fields Results from COMMEMI—the international project on the comparison of modelling methods for electromagnetic induction. <i>Journal of Applied Geophysics</i> , 1997, 37, 133-271.	0.9	148
8	Quasi-linear approximation in 3-D electromagnetic modeling. <i>Geophysics</i> , 1996, 61, 646-665.	1.4	129
9	Electromagnetic geophysics: Notes from the past and the road ahead. <i>Geophysics</i> , 2010, 75, 75A49-75A66.	1.4	126
10	Generalized effective-medium theory of induced polarization. <i>Geophysics</i> , 2008, 73, F197-F211.	1.4	117
11	Rigorous 3D inversion of marine CSEM data based on the integral equation method. <i>Geophysics</i> , 2007, 72, WA73-WA84.	1.4	115
12	Integral Transforms in Geophysics. , 1988, , .		113
13	Generalized joint inversion of multimodal geophysical data using Gramian constraints. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	110
14	Minimum support nonlinear parametrization in the solution of a 3D magnetotelluric inverse problem. <i>Inverse Problems</i> , 2004, 20, 937-952.	1.0	95
15	3D controlled-source electromagnetic modeling in anisotropic medium using edge-based finite element method. <i>Computers and Geosciences</i> , 2014, 73, 164-176.	2.0	94
16	New advances in regularized inversion of gravity and electromagnetic data. <i>Geophysical Prospecting</i> , 2009, 57, 463-478.	1.0	92
17	3D inversion of airborne electromagnetic data. <i>Geophysics</i> , 2012, 77, WB59-WB69.	1.4	90
18	Three-dimensional quasi-linear electromagnetic inversion. <i>Radio Science</i> , 1996, 31, 741-754.	0.8	85

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19	Quasi-analytical approximations and series in electromagnetic modeling. <i>Geophysics</i> , 2000, 65, 1746-1757.	1.4	83
20	3D electromagnetic inversion based on quasi-analytical approximation. <i>Inverse Problems</i> , 2000, 16, 1297-1322.	1.0	82
21	Electromagnetic inversion using quasi-linear approximation. <i>Geophysics</i> , 2000, 65, 1501-1513.	1.4	79
22	Large-scale 3D inversion of potential field data. <i>Geophysical Prospecting</i> , 2012, 60, 1186-1199.	1.0	79
23	Quasi-linear series in three-dimensional electromagnetic modeling. <i>Radio Science</i> , 1997, 32, 2167-2188.	0.8	62
24	Underground imaging by frequency-domain electromagnetic migration. <i>Geophysics</i> , 1996, 61, 666-682.	1.4	61
25	Three-dimensional inversion of multitransmitter electromagnetic data based on the localized quasi-linear approximation. <i>Geophysical Journal International</i> , 2002, 148, 506-519.	1.0	61
26	Generalized effective medium theory of induced polarization. , 2006, , .		61
27	Modelling the wave phenomena in acoustic and elastic media with sharp variations of physical properties using the grid-characteristic method. <i>Geophysical Prospecting</i> , 2018, 66, 1485-1502.	1.0	54
28	Massively parallel regularized 3D inversion of potential fields on CPUs and GPUs. <i>Computers and Geosciences</i> , 2014, 62, 80-87.	2.0	49
29	Three-dimensional inversion of large-scale EarthScope magnetotelluric data based on the integral equation method: Geoelectrical imaging of the Yellowstone conductive mantle plume. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	48
30	Large-scale 3D inversion of marine magnetotelluric data: Case study from the Gemini prospect, Gulf of Mexico. <i>Geophysics</i> , 2011, 76, F77-F87.	1.4	46
31	The construction of effective methods for electromagnetic modelling. <i>Geophysical Journal International</i> , 1982, 68, 589-607.	1.0	45
32	A hybrid finite-difference and integral-equation method for modeling and inversion of marine controlled-source electromagnetic data. <i>Geophysics</i> , 2016, 81, E323-E336.	1.4	44
33	The solution of the inverse problems on the basis of the analytical continuation of the transient electromagnetic field in the reverse time.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1983, 35, 747-765.	0.8	41
34	Time-domain electromagnetic migration in the solution of inverse problems. <i>Geophysical Journal International</i> , 1997, 131, 293-309.	1.0	38
35	Fast Imaging of TDEM data based on S-inversion. <i>Journal of Applied Geophysics</i> , 2000, 43, 15-32.	0.9	38
36	Three-dimensional nonlinear regularized inversion of the induced polarization data based on the Cole-Cole model. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 150, 29-43.	0.7	36

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37	Large-scale 3D inversion of HEM data using a moving footprint. , 2007, , .		34
38	Potential field migration for rapid imaging of gravity gradiometry data. Geophysical Prospecting, 2011, 59, 1052-1071.	1.0	34
39	Finite-element time-domain modeling of electromagnetic data in general dispersive medium using adaptive Padé series. Computers and Geosciences, 2017, 109, 194-205.	2.0	34
40	Sharp boundary inversion in crosswell travel-time tomography. Journal of Geophysics and Engineering, 2006, 3, 122-134.	0.7	33
41	Anisotropic 3D inversion of towed-streamer electromagnetic data: Case study from the Troll West Oil Province. Interpretation, 2014, 2, SH97-SH113.	0.5	33
42	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
43	Adaptive multinary inversion of gravity and gravity gradiometry data. Geophysics, 2017, 82, G101-G114.	1.4	31
44	Fast numerical modeling of multitransmitter electromagnetic data using multigrid quasi-linear approximation. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1428-1434.	2.7	29
45	Localized inversion of time-domain electromagnetic data. Geophysics, 2002, 67, 1115-1125.	1.4	26
46	Electromagnetic studies on the Kola peninsula and in Northern Finland by means of a powerful controlled source. Journal of Geodynamics, 1986, 5, 237-256.	0.7	24
47	Resistivity Imaging by Time Domain Electromagnetic Migration (TDEMM). Exploration Geophysics, 1995, 26, 186-194.	0.5	24
48	Fast and Stable Two-Dimensional Inversion of Magnetotelluric Data. Journal of Geomagnetism and Geoelectricity, 1997, 49, 1469-1497.	0.8	22
49	Multinary Inversion for Tunnel Detection. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1100-1103.	1.4	22
50	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
51	Three-dimensional inversion of towed streamer electromagnetic data. Geophysical Prospecting, 2014, 62, 552-572.	1.0	21
52	3-D Cauchy-type integrals for terrain correction of gravity and gravity gradiometry data. Geophysical Journal International, 2013, 194, 249-268.	1.0	20
53	Iterative migration of gravity and gravity gradiometry data. , 2013, , .		20
54	Migration versus Inversion in Electromagnetic Imaging Technique. Journal of Geomagnetism and Geoelectricity, 1997, 49, 1415-1437.	0.8	20

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55	Rapid three-dimensional inversion of multi-transmitter electromagnetic data using the spectral Lanczos decomposition method. <i>Inverse Problems</i> , 2004, 20, S233-S256.	1.0	19
56	A novel approach to the model appraisal and resolution analysis of regularized geophysical inversion. <i>Geophysics</i> , 2006, 71, R79-R90.	1.4	19
57	Large-scale three-dimensional inversion of EarthScope MT data using the integral equation method. <i>Izvestiya, Physics of the Solid Earth</i> , 2010, 46, 670-678.	0.2	19
58	Analysis and interpretation of anomalous conductivity and magnetic permeability effects in time domain electromagnetic data. <i>Journal of Applied Geophysics</i> , 2001, 46, 217-233.	0.9	18
59	Integral Electric Current Method in 3-D Electromagnetic Modeling for Large Conductivity Contrast. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1282-1290.	2.7	18
60	Source characterization of atmospheric releases using stochastic search and regularized gradient optimization. <i>Inverse Problems in Science and Engineering</i> , 2011, 19, 1097-1124.	1.2	17
61	Self-organizing maps for pseudo-lithological classification of 3D airborne electromagnetic, gravity gradiometry and magnetic inversions. <i>ASEG Extended Abstracts</i> , 2012, 2012, 1-4.	0.1	17
62	Optimal Synthetic Aperture Method for Marine Controlled-Source EM Surveys. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 414-418.	1.4	17
63	Approximate solutions of acoustic 3D integral equation and their application to seismic modeling and full-waveform inversion. <i>Journal of Computational Physics</i> , 2017, 346, 318-339.	1.9	17
64	Interpretation of MHD-sounding data from the Kola Peninsula by the electromagnetic migration method. <i>Physics of the Earth and Planetary Interiors</i> , 1987, 45, 149-160.	0.7	16
65	Analysis and interpretation of anomalous conductivity and magnetic permeability effects in time domain electromagnetic data. <i>Journal of Applied Geophysics</i> , 2001, 46, 235-248.	0.9	16
66	Regularized focusing inversion of marine CSEM data using minimum vertical support stabilizer. , 2007, , .		16
67	A multigrid integral equation method for large-scale models with inhomogeneous backgrounds. <i>Journal of Geophysics and Engineering</i> , 2008, 5, 438-447.	0.7	16
68	Joint Inversion of Gravity and Magnetotelluric Data for the Depth-to-Baseament Estimation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 1228-1232.	1.4	16
69	Inversion of magnetotelluric data using integral equation approach with variable sensitivity domain: Application to EarthScope MT data. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 270, 113-127.	0.7	16
70	Monitoring of hydrocarbon reservoirs using marine CSEM method. , 2009, , .		16
71	Fast numerical methods for marine controlled-source electromagnetic (EM) survey data based on multigrid quasi-linear approximation and iterative EM migration. <i>Exploration Geophysics</i> , 2008, 39, 60-67.	0.5	15
72	Contraction pre-conditioner in finite-difference electromagnetic modelling. <i>Geophysical Journal International</i> , 2016, 206, 1718-1729.	1.0	15

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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	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
75	16. Three-Dimensional Quasi-Linear Electromagnetic Modeling and Inversion. , 1999, , 233-255.		14
76	A quasi-analytical boundary condition for three-dimensional finite difference electromagnetic modeling. Radio Science, 2004, 39, n/a-n/a.	0.8	14
77	Controls on the variability of net infiltration to desert sandstone. Water Resources Research, 2007, 43, .	1.7	14
78	Cauchy integral analogues for the separation and continuation of electromagnetic fields within conducting matter. Geophysical Surveys, 1980, 4, 115-136.	0.3	13
79	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
80	Acoustic 3D modeling by the method of integral equations. Computers and Geosciences, 2018, 111, 223-234.	2.0	13
81	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
82	Incorporating known petrophysical model in the seismic full-waveform inversion using the Gramian constraint. Geophysical Prospecting, 2020, 68, 1361-1378.	1.0	13
83	Enhancement and Sharpening the Migration Images of the Gravity Field and Its Gradients. Pure and Applied Geophysics, 2020, 177, 2853-2870.	0.8	13
84	Large-Scale Electromagnetic Modeling for Multiple Inhomogeneous Domains. Communications in Computational Physics, 2009, , 269-289.	0.7	13
85	Focusing inversion of marine full-tensor gradiometry data in offshore geophysical exploration. , 2008, , .		12
86	Massively parallel 3D inversion of gravity and gravity gradiometry data. Preview, 2011, 2011, 29-34.	0.0	12
87	3D migration for rapid imaging of total-magnetic-intensity data. Geophysics, 2012, 77, J1-J5.	1.4	12
88	Complex resistivity of mineral rocks in the context of the generalised effective-medium theory of the induced polarisation effect. Geophysical Prospecting, 2018, 66, 798-817.	1.0	12
89	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
90	Cross-well electromagnetic imaging in three dimensions. Exploration Geophysics, 2003, 34, 34-40.	0.5	11

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91	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
92	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
93	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
94	Focusing iterative migration of gravity gradiometry data acquired in the Nordkapp Basin, Barents Sea. Geophysical Prospecting, 2020, 68, 2292-2306.	1.0	11
95	Recovering Magnetization of Rock Formations by Jointly Inverting Airborne Gravity Gradiometry and Total Magnetic Intensity Data. Minerals (Basel, Switzerland), 2021, 11, 366.	0.8	11
96	Interpretation of local two-dimensional electromagnetic anomalies by formalized trial procedure. Geophysical Journal International, 1983, 75, 623-638.	1.0	10
97	Some results of gradient electromagnetic sounding in Doldrums Mid-Atlantic Ridge fracture. Physics of the Earth and Planetary Interiors, 1991, 66, 259-264.	0.7	10
98	Fast Sâ€“inversion in the time domain: method of interpretation using the thin sheet approach. , 1996, , .		10
99	Weighted regularized inversion of magnetotelluric data. , 1998, , .		10
100	Inverting airborne geophysical data for mega-cell and giga-cell 3D Earth models. The Leading Edge, 2012, 31, 316-321.	0.4	10
101	3D inversion of SPECTREM and ZTEM airborne electromagnetic data from the Pebble Cuâ€“Auâ€“Mo porphyry deposit, Alaska. Exploration Geophysics, 2012, 43, 104-115.	0.5	10
102	Migration transformation of two-dimensional magnetic vector and tensor fields. Geophysical Journal International, 2012, 189, 1361-1368.	1.0	10
103	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
104	The Gramian Method of Joint Inversion of the Gravity Gradiometry and Seismic Data. Pure and Applied Geophysics, 2019, 176, 1659-1672.	0.8	10
105	Robust Synthetic Aperture Imaging of Marine Controlled-Source Electromagnetic Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5527-5539.	2.7	10
106	Underground imaging by electromagnetic migration. , 1993, , .		10
107	Inversion of multiâ€“transmitter 3â€“D electromagnetic data based on localized quasiâ€“linear approximation. , 2000, , .		9
108	Rapid and rigorous 3D inversion of airborne electromagnetic data. , 2006, , .		9

#	ARTICLE	IF	CITATIONS
109	Regularization analysis of three-dimensional magnetotelluric inversion. , 2007, , .		9
110	Advanced Methods of Joint Inversion of Multiphysics Data for Mineral Exploration. Geosciences (Switzerland), 2021, 11, 262.	1.0	9
111	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
112	Electromagnetic Inversion. Methods in Geochemistry and Geophysics, 2009, , 321-352.	0.2	8
113	Laboratory-based GEMTIP analysis of spectral IP data for mineral discrimination. , 2012, , .		8
114	3D airborne electromagnetic inversion using a hybrid edge-based FE-IE method with moving sensitivity domain. , 2014, , .		8
115	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
116	3D inversion of time-lapse CSEM data for reservoir surveillance. , 2010, , .		8
117	Joint multinary inversion of gravity and magnetic data using Gramian constraints. , 2018, , .		8
118	Iterative migration in marine CSEM data interpretation. , 2006, , .		7
119	Iterative electromagnetic migration for 3D inversion of marine controlled-source electromagnetic data. Geophysical Prospecting, 2011, 59, 1101-1113.	1.0	7
120	Joint iterative migration of surface and borehole gravity gradiometry data. , 2016, , .		7
121	Three-Dimensional Inversion of Magnetotelluric Data for the Sediment-Basement Interface. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	7
122	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
123	Joint Gramian inversion of geophysical data with different resolution capabilities: case study in Yellowstone. Geophysical Journal International, 2021, 226, 1058-1085.	1.0	7
124	Rigorous 3D inversion of marine magnetotelluric data in the area with complex bathymetry. , 2009, , .		7
125	Use of finite functions method for the solution of the 2D inverse problem.. Journal of Geomagnetism and Geoelectricity, 1983, 35, 707-721.	0.8	7
126	2D finite-difference time domain electromagnetic migration. , 1997, , .		6

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127	Three-dimensional inversion of magnetotelluric data in complex geological structures. ASEG Extended Abstracts, 2003, 2003, 1-39.	0.1	6
128	New development in 3D marine MT modeling and inversion for offshore petroleum exploration. , 2004, , .		6
129	Sensitivity analysis of marine CSEM surveys. , 2007, , .		6
130	Electromagnetic sounding of the Kola Peninsula with a powerful extremely low frequency source. Doklady Earth Sciences, 2011, 438, 711-716.	0.2	6
131	3D inversion of regional MT data distorted by near-surface inhomogeneities using a complex distortion matrix. , 2015, , .		6
132	Least Squares Migration of Synthetic Aperture Data for Towed Streamer Electromagnetic Survey. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 97-101.	1.4	6
133	Experimental Study of Induced Polarization Effect in Unconventional Reservoir Rocks. Geomaterials, 2014, 04, 117-128.	0.4	6
134	Advances in experimental research of induced polarization effect in reservoir rocks. , 2010, , .		5
135	Joint three-dimensional inversion of magnetotelluric and magnetovariational data. Izvestiya, Physics of the Solid Earth, 2010, 46, 655-669.	0.2	5
136	High-frequency induced polarization measurements of hydrocarbon-bearing rocks. , 2011, , .		5
137	Focusing Controlled Sensitivity of Geophysical Data. Journal of Geology & Geosciences, 2013, 02, .	0.2	5
138	Anisotropic inversion of MCSEM data based on the integral equation method. , 2014, , .		5
139	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
140	Electromagnetic Fields in Inhomogeneous Media. , 2018, , 201-266.		5
141	Fast numerical modeling of marine controlled-source electromagnetic data using quasi-linear approximation. , 2005, , .		5
142	Integral equation method for 3D modeling of electromagnetic fields in complex structures with inhomogeneous background conductivity in marine CSEM applications. , 2005, , .		5
143	Rapid seabed imaging by frequency domain electromagnetic migration. , 2005, , .		5
144	Three-dimensional iterative inversion of the marine controlled-source electromagnetic data. , 2005, , .		5

#	ARTICLE	IF	CITATIONS
145	Electromagnetic forward modeling based on the integral equation method using parallel computers. , 2005, , .		5
146	Anisotropy of induced polarization in the context of the generalized effective-medium theory. , 2008, , .		5
147	Controlled sensitivities for marine CSEM surveys. , 2011, , .		5
148	An optimal synthetic aperture method for the creation of directional sensitivity and removal of the airwave effect in MCSEM data. , 2014, , .		5
149	3D inversion of time-lapse CSEM data based on dynamic reservoir simulations of the Harding field, North Sea. , 2011, , .		5
150	Quasi-analytical solutions for EM field in inhomogeneous structures based on unified iterative quasi-linear method. , 1998, , .		4
151	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
152	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
153	Gramian constraints in the joint inversion of airborne gravity gradiometry and magnetic data. , 2013, , .		4
154	Inversion of gravity and gravity gradiometry data for density contrast surfaces using Cauchy-type integrals. , 2013, , .		4
155	Ill-Posed Problems and the Methods of Their Solution. , 2015, , 33-61.		4
156	3D Inversion of AEM Data Based on a Hybrid IE-FE Method and the Moving Sensitivity Domain Approach with a Direct Solver. , 2015, , .		4
157	Complex resistivity of mineral rocks in the context of the generalized effective-medium theory of the IP effect. , 2016, , .		4
158	Contraction operator transformation for the complex heterogeneous Helmholtz equation. Computers and Mathematics With Applications, 2021, 86, 63-72.	1.4	4
159	Electromagnetic migration of marine CSEM data in areas with rough bathymetry. , 2009, , .		4
160	3D imaging of gravity gradiometry data from a single borehole using potential field migration. , 2011, , .		4
161	3D inversion of borehole to surface electromagnetic data in a multiple reservoirs survey. , 2014, , .		4
162	Inversion of TMI data for the magnetization vector using Gramian constraints. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
163	Joint inversion of multimodal data using focusing stabilizers and Gramian constraints. , 2018, , .		4
164	Joint focusing inversion of marine controlled-source electromagnetic and full tensor gravity gradiometry data. Geophysics, 2022, 87, K35-K47.	1.4	4
165	Numerical modeling of EM fields over local anomalies with a vertical axis of symmetry. Physics of the Earth and Planetary Interiors, 1990, 60, 53-61.	0.7	3
166	Chapter 10 3-D focusing inversion of CSAMT data. Methods in Geochemistry and Geophysics, 2002, 35, 173-191.	0.2	3
167	Regularized focusing inversion of 3D gravity tensor data. , 2002, , .		3
168	Three-dimensional cross-well electromagnetic tomography. , 2003, , .		3
169	Electromagnetic modeling based on the rock physics description of the true complexity of rocks: Applications to study of the IP effect in porphyry copper deposits. , 2006, , .		3
170	Spectral complex conductivity inversion of airborne electromagnetic data. , 2007, , .		3
171	Marine Electromagnetic Methods. Methods in Geochemistry and Geophysics, 2009, , 695-733.	0.2	3
172	Possibilities and problems of modern magnetotellurics. Izvestiya, Physics of the Solid Earth, 2010, 46, 648-654.	0.2	3
173	Joint 3D inversion of marine CSEM and MT data. , 2011, , .		3
174	3D inversion of full tensor magnetic gradiometry (FTMG) data. , 2011, , .		3
175	Joint inversion of airborne gravity gradiometry and magnetic data from the Lac de Gras region of the Northwest Territories of Canada. , 2014, , .		3
176	Feasibility study of application of nanoparticles in complex resistivity (CR) reservoir monitoring. , 2015, , .		3
177	Three-dimensional parallel edge-based finite element modeling of electromagnetic data with field redatuming. , 2015, , .		3
178	Redatuming controlled-source electromagnetic data using Strattonâ€“Chu type integral transformations. Journal of Applied Geophysics, 2016, 126, 1-12.	0.9	3
179	Joint inversion of seismic and gravity gradiometry data using Gramian constraints. , 2017, , .		3
180	Editorial for Special Issue â€œGeophysics for Mineral Explorationâ€• Minerals (Basel, Switzerland), 2021, 11, 692.	0.8	3

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181	Mapping the salt structures from magnetic and gravity gradiometry data in Nordkapp Basin, Barents Sea. , 2021, , .		3
182	Applying OpenCL Technology for Modelling Seismic Processes Using Grid-Characteristic Methods. Communications in Computer and Information Science, 2016, , 577-588.	0.4	3
183	Migration of Elastic Fields Based on Kirchhoff and Rayleigh Integrals. Smart Innovation, Systems and Technologies, 2018, , 241-265.	0.5	3
184	Focusing inversion of tensor induction logging data in anisotropic formations and deviated well. , 2001, , .		3
185	3D inversion of helicopterborne EM data in areas with rough topography. , 2004, , .		3
186	Removal of the airwave effect on MCSEM data by separation of the main part of the anomalous field. , 2010, , .		3
187	The first practical 3D inversion of towed streamer EM data from the Troll field trial. , 2012, , .		3
188	Continental-scale joint inversion of Alaska and Yukon gravity and magnetic data. First Break, 2017, 35, .	0.2	3
189	15. Parameter Estimation for 3-D Geoelectromagnetic Inverse Problems. , 1999, , 222-232.		3
190	CORRELATION METHODS OF TRANSFORMATION AND INTERPRETATION OF GEOPHYSICAL ANOMALIES*. Geophysical Prospecting, 1980, 28, 919-934.	1.0	2
191	Total normalized gradient method in the interpretation of airborne electromagnetic and magnetic data. , 1995, , .		2
192	Electromagnetic migration. , 1998, , 281-298.		2
193	Magnetotelluric inversion of blocky geoelectrical structures using the minimum support method. , 1999, , .		2
194	Rapid 3D magnetotelluric and CSAMT inversion. , 2001, , .		2
195	Two-dimensional time-domain electromagnetic migration using integral transformation. , 2007, , .		2
196	Electromagnetic properties of rocks and minerals. Methods in Geochemistry and Geophysics, 2009, 43, 395-447.	0.2	2
197	Electromagnetic methods in the frequency and time domains. Methods in Geochemistry and Geophysics, 2009, , 649-693.	0.2	2
198	Principles of Ill-Posed Inverse Problem Solution. Methods in Geochemistry and Geophysics, 2009, 43, 299-319.	0.2	2

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199	Electromagnetic migration. Methods in Geochemistry and Geophysics, 2009, 43, 353-391.	0.2	2
200	Rapid imaging of gravity gradiometry data using 2D potential field migration. , 2010, , .		2
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