




Khairullo

ORCID iD

<https://orcid.org/0000-0002-3451-8655>

 Print view 


Websites

https://www.researchgate.net/profile/Kh_Makhmudov (https://www.researchgate.net/profile/Kh_Makhmudov) 

Country

Russia 

Keywords

Thermodynamic functions, free energy , strength, deformation, electromagnetic emissions, natural dielectric, polarization, relaxation charge, activation energy, seismic energy, concentration parameter 

Other IDs

ResearcherID: I-1885-2013 (<http://www.researcherid.com/rid/I-1885-2013>) 

Scopus Author ID: 6603713542 (<http://www.scopus.com/inward/authorDetails.url?authorID=6603713542&partnerID=MN8TOARS>)

Email

h.machmoudov@mail.ioffe.ru 

Biography

He began his career as a senior laboratory assistant, after studying at KSU (the Herzen state pedagogical University; Khujand state University. AK. B. Gafurova), where he studied from 1985 to 1992, where he graduated "with honors". From 1993 to 1996, he studied at the Institute of Physics and technology of the Russian Academy of Sciences. A. F. Ioffe Russian Academy of Sciences. Then she completed her PhD thesis in 1997 and began her professional scientific activity in 1997 at the Russian Academy of Sciences Institute of Physics and technology. A. F. Ioffe Russian Academy of Sciences. Main place of work:

Works as a senior researcher at the Federal state budgetary institution of the Institute of Physics and technology. A. F. Ioffe of the Russian Academy of Sciences (Ioffe Institute).

<http://www.ioffe.ru/index.php#>

Teaching discipline:

Works as an associate Professor, Department of production safety national mineral resource University "Gorny" — one of the leading and largest universities in St. Petersburg, the first mining and technical educational institution in Russia.

http://www.spmi.ru/en/ucheb/ucheb_6473

Teaching discipline:

- Thermodynamics
- Thermotechnics

▼ Education and qualifications (1)

↑↓ Sort

Fiziko-tehnicheskij institut imeni A F Ioffe RAN: Saint-Petersburg, RU



1993-12-01 to 1996-12-01 | graduate student (Laboratory of Strength Physics)

Education

Source: Khairullo

★ Preferred source

▼ Works (21 of 21)

↕ Sort

Analysis of the Dependence of the Break-Down Point on Temperature of Microwave Heating of Loaded Heterogeneous Materials (Rocks) Based on the Formation of Growth of Microcracks



Technical Physics

2019 | journal-article

DOI: 10.1134/S1063784219050153 (<https://doi.org/10.1134/s1063784219050153>)

EID: 2-s2.0-85067338546

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85067338546&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85067338546&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2019,title = {Analysis of the Dependence of the Break-Down Point on Temperature of Microwave Heating of Loaded Heterogeneous Materials (Rocks) Based on the Formation of Growth of Microcracks},journal = {Technical Physics},year = {2019},volume = {64},number = {5},pages = {615-619},author = {Menzhulin, M.G. and Makhmudov, K.F.}}

Contributor

Menzhulin, M.G.

Makhmudov, K.F.

Added

2019-10-25

Last modified

2019-10-25

Source: Khairullo *via* Scopus - Elsevier

★ Preferred source

Shockwave-Initiated Emission of Ions from Stressed Granite



Technical Physics

2019 | journal-article

DOI: 10.1134/S1063784219030228 (<https://doi.org/10.1134/s1063784219030228>)

EID: 2-s2.0-85066042820

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85066042820&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85066042820&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2019,title = {Shockwave-Initiated Emission of Ions from Stressed Granite},journal = {Technical Physics},year = {2019},volume = {64},number = {3},pages = {352-355},author = {Shcherbakov, I.P. and Vettegren?, V.I. and Mamalimov, R.I. and Makhmudov, K.F.}}

Contributor

Shcherbakov, I.P.

Vettegren', V.I.

Mamalimov, R.I.

Makhmudov, K.F.

Added

2019-10-25

Last modified

2019-10-25

Source: Khairullo *via* Scopus - Elsevier

★ Preferred source

Wire-free method of measurements of weak electrostatic values under stationary and dynamic conditions



Journal of Physics: Conference Series

2019 | conference-paper

DOI: 10.1088/1742-6596/1400/7/077057 (<https://doi.org/10.1088/1742-6596/1400/7/077057>)

EID: 2-s2.0-85077682582

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85077682582&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85077682582&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2019,title = {Wire-free method of measurements of weak electrostatic values under stationary and dynamic conditions},journal = {Journal of Physics: Conference Series},year = {2019},volume = {1400},number = {7},author = {Makhmudov, K.F.}}

Contributor

Makhmudov, K.F.

Added

2020-02-19

Last modified

2020-02-19

Source: Khairullo *via* Scopus - Elsevier

★ Preferred source

Mechanism and Dynamics of Fracture of the Stressed Granite Surface by a Shock Wave



Technical Physics

2018 | journal-article

DOI: 10.1134/S1063784218070265 (<https://doi.org/10.1134/s1063784218070265>)

EID: 2-s2.0-85050571555

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85050571555&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85050571555&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2018,title = {Mechanism and Dynamics of Fracture of the Stressed Granite Surface by a Shock Wave},journal = {Technical Physics},year = {2018},volume = {63},number = {7},pages = {979-983},author = {Shcherbakov, I.P. and Vettegren, V.I. and Mamalimov, R.I. and Makhmudov, K.F.}}

Contributor

Shcherbakov, I.P.

Vettegren, V.I.

Mamalimov, R.I.

Makhmudov, K.F.

Added

2019-10-25

Last modified

2019-10-25

Source: Khairullo *via* Scopus - Elsevier

★ Preferred source

Dynamics of the nanosecond destruction of stressed granite during shock loading



Technical Physics

2017 | journal-article

DOI: 10.1134/S1063784217080242 (<https://doi.org/10.1134/s1063784217080242>)

EID: 2-s2.0-85027837036

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85027837036&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85027837036&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2017,title = {Dynamics of the nanosecond destruction of stressed granite during shock loading},journal = {Technical Physics},year = {2017},volume = {62},number = {8},pages = {1194-1196},author = {Shcherbakov, I.P. and Vettegren, V.I. and Mamalimov, R.I. and Makhmudov, K.F.}}

Contributor

Shcherbakov, I.P.

Vettegren, V.I.

Mamalimov, R.I.

Makhmudov, K.F.

Added

2019-10-25

Last modified

2019-10-25

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Fracture in heterogeneous materials: experimental and theoretical studies



Russian Geology and Geophysics

2017 | journal-article

DOI: 10.1016/j.rgg.2016.09.030 (<https://doi.org/10.1016/j.rgg.2016.09.030>)

EID: 2-s2.0-85020288684

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85020288684&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85020288684&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2017,title = {Fracture in heterogeneous materials: experimental and theoretical studies},journal = {Russian Geology and Geophysics},year = {2017},volume = {58},number = {6},pages = {738-743},author = {Kuksenko, V.S. and Makhmudov, K.F.}}

Contributor

Kuksenko, V.S.

Makhmudov, K.F.

Added

2017-07-27

Last modified

2017-07-27

Source: Scopus - Elsevier

★ Preferred source

The influence of stress on electron emission initiated by a shock wave from a heterogeneous material (granite)



Physics of the Solid State

2017 | journal-article

DOI: 10.1134/S1063783417030295 (<https://doi.org/10.1134/s1063783417030295>)

EID: 2-s2.0-85016514741

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85016514741&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85016514741&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2017,title = {The influence of stress on electron emission initiated by a shock wave from a heterogeneous material (granite)},journal = {Physics of the Solid State},year = {2017},volume = {59},number = {3},pages = {575-577},author = {Shcherbakov, I.P. and Vettegren, V.I. and Mamalimov, R.I. and Makhmudov, K.F.}}

Contributor

Shcherbakov, I.P.

Vettegren, V.I.

Mamalimov, R.I.

Makhmudov, K.F.

Added

2017-07-27

Last modified

2017-07-27

Source: Scopus - Elsevier

★ Preferred source

Thermokinetic model of fracture of heterogeneous materials and peculiarities of its numerical realization under the action of RF electromagnetic fields



Technical Physics

2017 | journal-article

DOI: 10.1134/S1063784217070131 (<https://doi.org/10.1134/s1063784217070131>)

EID: 2-s2.0-85025606689

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-85025606689&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-85025606689&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2017,title = {Thermokinetic model of fracture of heterogeneous materials and peculiarities of its numerical realization under the action of RF electromagnetic fields},journal = {Technical Physics},year = {2017},volume = {62},number = {7},pages = {1056-1064},author = {Menzhulin, M.G. and Makhmudov, K.F.}}

Contributor

Menzhulin, M.G.

Makhmudov, K.F.

Added

2019-10-25

Last modified

2019-10-25

Source: Khairullo via Scopus - Elsevier

★ Preferred source

On wave and Rheidity properties of the Earth's crust

Physics of the Solid State

2016 | journal-article

DOI: 10.1134/S1063783416030306 (<https://doi.org/10.1134/s1063783416030306>)

EID: 2-s2.0-84978275809



URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84978275809&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-84978275809&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2016,title = {On wave and Rheidity properties of the Earth's crust},journal = {Physics of the Solid State},year = {2016},volume = {58},number = {3},pages = {561-571},author = {Vikulin, A.V. and Makhmudov, K.F. and Ivanchin, A.G. and Gerus, A.I. and Dolgaya, A.A.}}

Contributor

Vikulin, A.V.

Makhmudov, K.F.

Ivanchin, A.G.

Gerus, A.I.

Dolgaya, A.A.

Added

2017-01-30

Last modified

2017-07-27

Source: Scopus - Elsevier

★ Preferred source

Diagnostics of the loss of stability of loaded constructions and the development of the sites of breakdown during the action of seismic explosion and air shock waves

Technical Physics

2015 | journal-article

DOI: 10.1134/S1063784215110201 (<https://doi.org/10.1134/s1063784215110201>)

EID: 2-s2.0-84947075540



URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84947075540&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-84947075540&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2015,title = {Diagnostics of the loss of stability of loaded constructions and the development of the sites of breakdown during the action of seismic explosion and air shock waves},journal = {Technical Physics},year = {2015},volume = {60},number = {11},pages = {1651-1657},author = {Makhmudov, K.F. and Menzhulin, M.G. and Zakharyan, M.V. and Sultonov, U. and Abdurakhmanov, Z.M.}}

Contributor

Makhmudov, K.F.

Menzhulin, M.G.

Zakharyan, M.V.

Sultonov, U.

Abdurakhmanov, Z.M.

Added

2015-12-18

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Thermoactivation mechanism of relaxation of the piezoelectric effects in solid dielectrics



Technical Physics

2011 | journal-article

DOI: 10.1134/S1063784211010166 (<https://doi.org/10.1134/S1063784211010166>)

EID: 2-s2.0-79551658048

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-79551658048&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-79551658048&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2011,title = {Thermoactivation mechanism of relaxation of the piezoelectric effects in solid dielectrics},journal = {Technical Physics},year = {2011},volume = {56},number = {1},pages = {72-77},author = {Makhmudov, K.F.}}

Contributor

Makhmudov, K.F.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Damage accumulation model for solids and the catastrophe prediction for large-scale objects



Journal of Mining Science

2010 | journal-article

DOI: 10.1007/s10913-010-0048-z (<https://doi.org/10.1007/s10913-010-0048-z>)

EID: 2-s2.0-78049350382

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-78049350382&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-78049350382&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2010,title = {Damage accumulation model for solids and the catastrophe prediction for large-scale objects},journal = {Journal of Mining Science},year = {2010},volume = {46},number = {4},pages = {384-393},author = {Kuksenko, V.S. and Makhmudov, K.F. and Manzhikov, B.T.}}

Contributor

Kuksenko, V.S.

Makhmudov, K.F.

Manzhikov, B.T.

Added

2014-02-16

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Changes in structure of natural heterogenous materials under deformation



Journal of Mining Science

2009 | journal-article

DOI: 10.1007/s10913-009-0044-3 (<https://doi.org/10.1007/s10913-009-0044-3>)

EID: 2-s2.0-75749118947

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-75749118947&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-75749118947&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2009,title = {Changes in structure of natural heterogenous materials under deformation},journal = {Journal of Mining Science},year = {2009},volume = {45},number = {4},pages = {355-358},author = {Kuksenko, V.S. and Makhmudov, Kh.F. and Mansurov, V.A. and Sultonov, U. and Rustamova, M.Z.}}

Contributor

Kuksenko, V.S.

Makhmudov, Kh.F.

Mansurov, V.A.

Sultonov, U.

Rustamova, M.Z.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Predicting the loss of stability of loaded structural elements using the method of acoustic emission



Technical Physics Letters

2007 | journal-article

DOI: 10.1134/S1063785007010178 (<https://doi.org/10.1134/S1063785007010178>)

EID: 2-s2.0-33846857169

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33846857169&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-33846857169&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2007,title = {Predicting the loss of stability of loaded structural elements using the method of acoustic emission},journal = {Technical Physics Letters},year = {2007},volume = {33},number = {1},pages = {62-64},author = {Kuksenko, V.S. and Tomilin, N.G. and Makhmudov, Kh.F. and Benin, A.V.}}

Contributor

Kuksenko, V.S.

Tomilin, N.G.

Makhmudov, Kh.F.

Benin, A.V.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Electromagnetic phenomena entailed by deformation and fracture of dielectric solids



Physics of the Solid State

2005 | journal-article

DOI: 10.1134/1.1924849 (<https://doi.org/10.1134/1.1924849>)

EID: 2-s2.0-18744388655

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-18744388655&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-18744388655&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2005,title = {Electromagnetic phenomena entailed by deformation and fracture of dielectric solids},journal = {Physics of the Solid State},year = {2005},volume = {47},number = {5},pages = {882-8825},author = {Makhmudov, Kh.F. and Kuksenko, V.S.}}

Contributor

Makhmudov, Kh.F.

Kuksenko, V.S.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Effect of mechanical stress on the polarization of natural dielectrics (Rocks)



Technical Physics Letters

2004 | journal-article

DOI: 10.1134/1.1783419 (<https://doi.org/10.1134/1.1783419>)

EID: 2-s2.0-4444343572

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-4444343572&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-4444343572&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov2004,title = {Effect of mechanical stress on the polarization of natural dielectrics (Rocks)},journal = {Technical Physics Letters},year = {2004},volume = {30},number = {7},pages = {612-614},author = {Kuksenko, V.S. and Makhmudov, Kh.F.}}

Contributor

Kuksenko, V.S.

Makhmudov, Kh.F.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Influence of mechanical field on a rock polarization

Doklady Akademii Nauk

1997 | journal-article

EID: 2-s2.0-33748641754



URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748641754&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748641754&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov1997,title = {Influence of mechanical field on a rock polarization},journal = {Doklady Akademii Nauk},year = {1997},volume = {355},number = {4},pages = {470-472},author = {Zhurkov, S.N. and Kuksenko, V.S. and Makhmudov, K.F. and Ponomarev, A.V.}}

Contributor

Zhurkov, S.N.

Kuksenko, V.S.

Makhmudov, K.F.

Ponomarev, A.V.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Mechanically-induced electrical effects in natural dielectrics

Technical Physics Letters

1997 | journal-article

EID: 2-s2.0-0041106526



URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0041106526&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-0041106526&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov1997,title = {Mechanically-induced electrical effects in natural dielectrics},journal = {Technical Physics Letters},year = {1997},volume = {23},number = {2},pages = {126-127},author = {Kuksenko, V.S. and Makhmudov, Kh.F.}}

Contributor

Kuksenko, V.S.

Makhmudov, Kh.F.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Relaxation of electric fields induced by mechanical loading in natural dielectrics



Physics of the Solid State

1997 | journal-article

EID: 2-s2.0-0031504511

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0031504511&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-0031504511&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov1997,title = {Relaxation of electric fields induced by mechanical loading in natural dielectrics},journal = {Physics of the Solid State},year = {1997},volume = {39},number = {7},pages = {1065-1066},author = {Kuksenko, V.S. and Makhmudov, Kh.F. and Ponomarev, A.V.}}

Contributor

Kuksenko, V.S.

Makhmudov, Kh.F.

Ponomarev, A.V.

Added

2014-08-10

Last modified

2017-07-27

Source: Khairullo *via* Scopus - Elsevier

★ Preferred source

The effect of a mechanical field on the polarization of rocks



Doklady Physics

1997 | journal-article

EID: 2-s2.0-26844536316

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-26844536316&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-26844536316&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov1997,title = {The effect of a mechanical field on the polarization of rocks},journal = {Doklady Physics},year = {1997},volume = {42},number = {8},pages = {420-422},author = {Zhurkov, S.N. and Kuksenko, V.S. and Makhmudov, Kh.F. and Ponomarev, A.V.}}

Contributor

Zhurkov, S.N.

Kuksenko, V.S.

Makhmudov, Kh.F.

Ponomarev, A.V.

Added

2014-04-12

Last modified

2017-07-27

Source: Khairullo *via* Scopus - Elsevier

★ Preferred source

Increasing the profitability of the production of solar cells based on cast polycrystalline silicon



Applied Solar Energy (English translation of Geliotekhnika)

1995 | journal-article

EID: 2-s2.0-0029425181

URL

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0029425181&partnerID=MN8TOARS> (<http://www.scopus.com/inward/record.url?eid=2-s2.0-0029425181&partnerID=MN8TOARS>)

Citation (bibtex) [Switch view]

@article{Makhmudov1995,title = {Increasing the profitability of the production of solar cells based on cast polycrystalline silicon},journal = {Applied Solar Energy (English translation of Geliotekhnika)},year = {1995},volume = {31},number = {4},pages = {19-24},author = {Abdurakhmanov, B.M. and Abrosimova, N.I. and Aliev, R. and Makhmudov, F.KH. and Saidov, M.S.}}

Contributor

Abdurakhmanov, B.M.

Abrosimova, N.I.

Aliev, R.

Makhmudov, F.KH.

Saidov, M.S.

Added

2019-10-25

Last modified

2019-10-25

Source: Khairullo via Scopus - Elsevier

★ Preferred source

Record last modified Feb 19, 2020 6:53:43 AM

8,038,022 ORCID iDs and counting. See more <https://orcid.org/statistics>



<https://orcid.org>



https://twitter.com/orcid_org



<http://orcid.org/blog/feed>



<https://github.com/ORCID>



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