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10.04.2019

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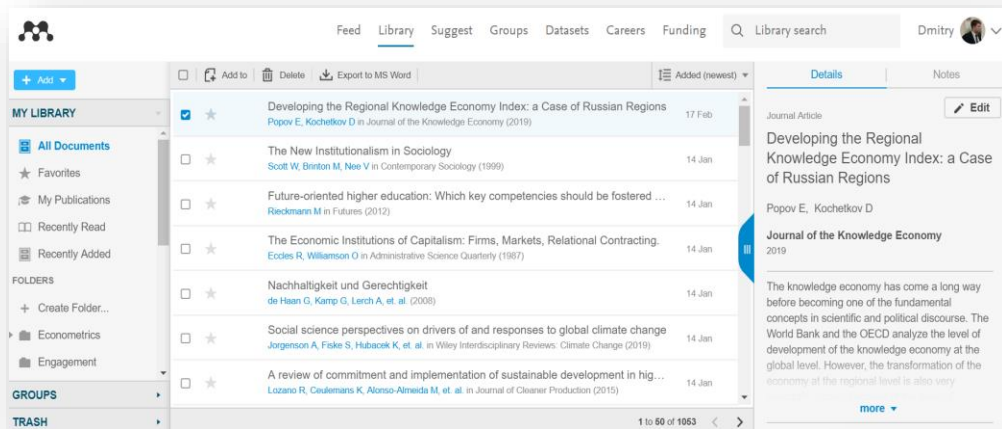
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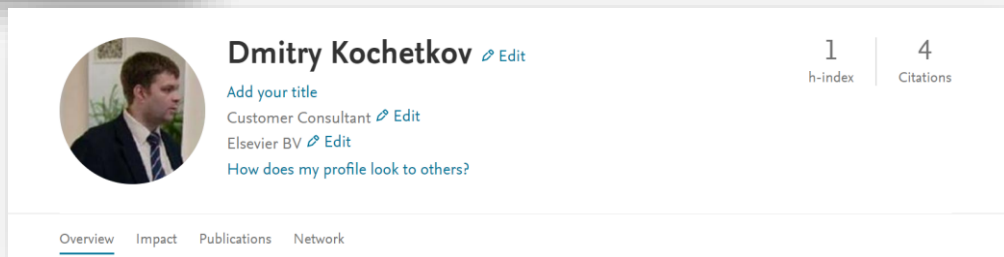
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Ocean Dynamics

Volume 56, Issue 5-6, December 2006, Pages 543-567

Impact of partial steps and momentum advection schemes in a global ocean circulation model at eddy-permitting resolution (Article)

Bernard, B.^a, Madec, G.^b, Penduff, T.^a, Molines, J.-M.^a, Treguier, A.-M.^c, Le Sommer, J.^a, Beckmann, A.^d, Biastoch, A.^e, Böning, C.^e, Dengg, J.^e, Derval, C.^f, Durand, E.^f, Gulev, S.^g, Remy, E.^f, Talandier, C.^b, Theetten, S.^c, Maltrud, M.^h, McClean, J.ⁱ, De Cuevas, B.^j

^aLaboratoire des Ecoulements Géophysiques et Industriels, Grenoble, France

^bLaboratoire d'Océanographie Dynamique et de Climatologie, Paris, France

^cLaboratoire de Physique des Océans, Ifremer Centre de Brest, Plouzané, France

^dDepartment of Physical Sciences, Division of Geophysics, University of Helsinki, Helsinki, Finland

^eIfM-GEOMAR, Leibniz-Institut für Meereswissenschaften, Universität Kiel, Kiel, Germany

^fMERCATOR-Ocean, Toulouse, France

^gShirshov Institut of Oceanography, Russian Academy of Science, Moscow, Russian Federation

^hFluid Dynamics Group, Los Alamos National Laboratory, Los Alamos, United States

ⁱScripps Institution of Oceanography, UCSD, San Diego, United States

^jNational Oceanography Centre, Southampton, United Kingdom

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Краткое описание

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Series of sensitivity tests were performed with a z-coordinate, global eddy-permitting (1/4°) ocean/sea-ice model (the ORCA-Ro25 model configuration developed for the DRAKKAR project) to carefully evaluate the impact of recent state-of-the-art numerical schemes on model solutions. The combination of an energy-entropy conserving (EEN) scheme for momentum advection with a partial step (PS) representation of the bottom topography yields significant improvements in the mean circulation. Well known biases in the representation of western boundary currents, such as in the Atlantic the detachment of the Gulf Stream, the path of the North Atlantic Current, the location of the Confluence, and

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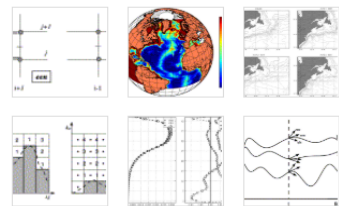
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Figures (14)



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Ocean Modelling

Volume 29, Issue 1, 2009, Pages 1-14



How momentum advection schemes influence current-topography interactions at eddy permitting resolution

Julien Le Sommer ^{a, ✉}, Thierry Penduff ^a, Sébastien Theetten ^b, Gurvan Madec ^c, Bernard Barnier ^a

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<https://doi.org/10.1016/j.ocemod.2008.11.007>

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Abstract

Recent studies have shown that the use of an enstrophy-and-energy-conserving momentum advection scheme substantially reduces widespread biases of mean currents in the global 1/4° DRAKKAR model. This paper investigates the origin of these improvements. A series of sensitivity simulations with different momentum advection schemes is performed with the North Atlantic 1/4° DRAKKAR model. Three second order momentum advection schemes conserving, respectively, enstrophy (*ens*), energy (*efx*) and both quantities (*een*) are tested and their impact on the model solution are compared.

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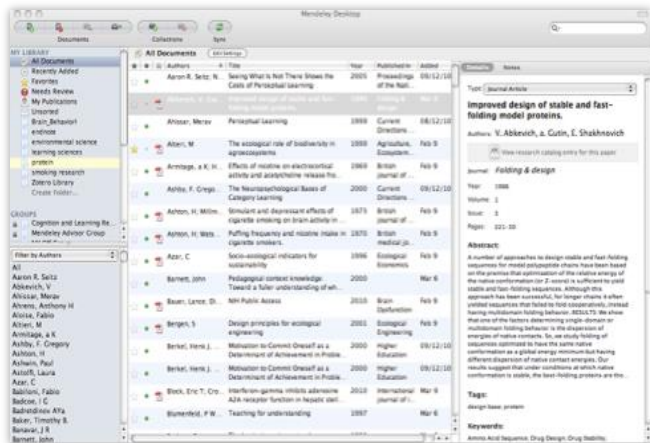
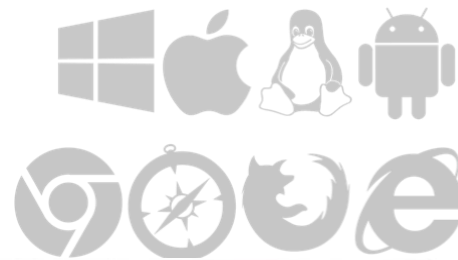
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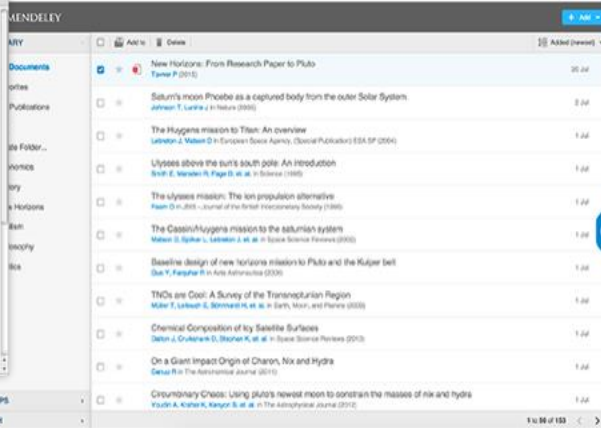


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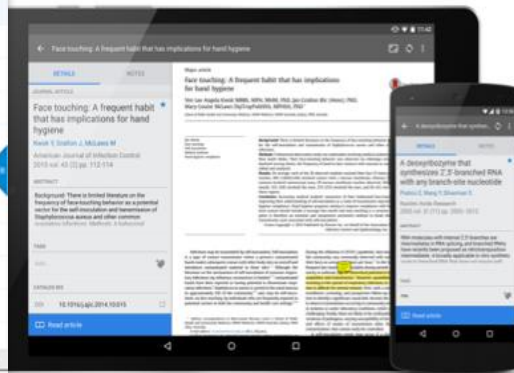
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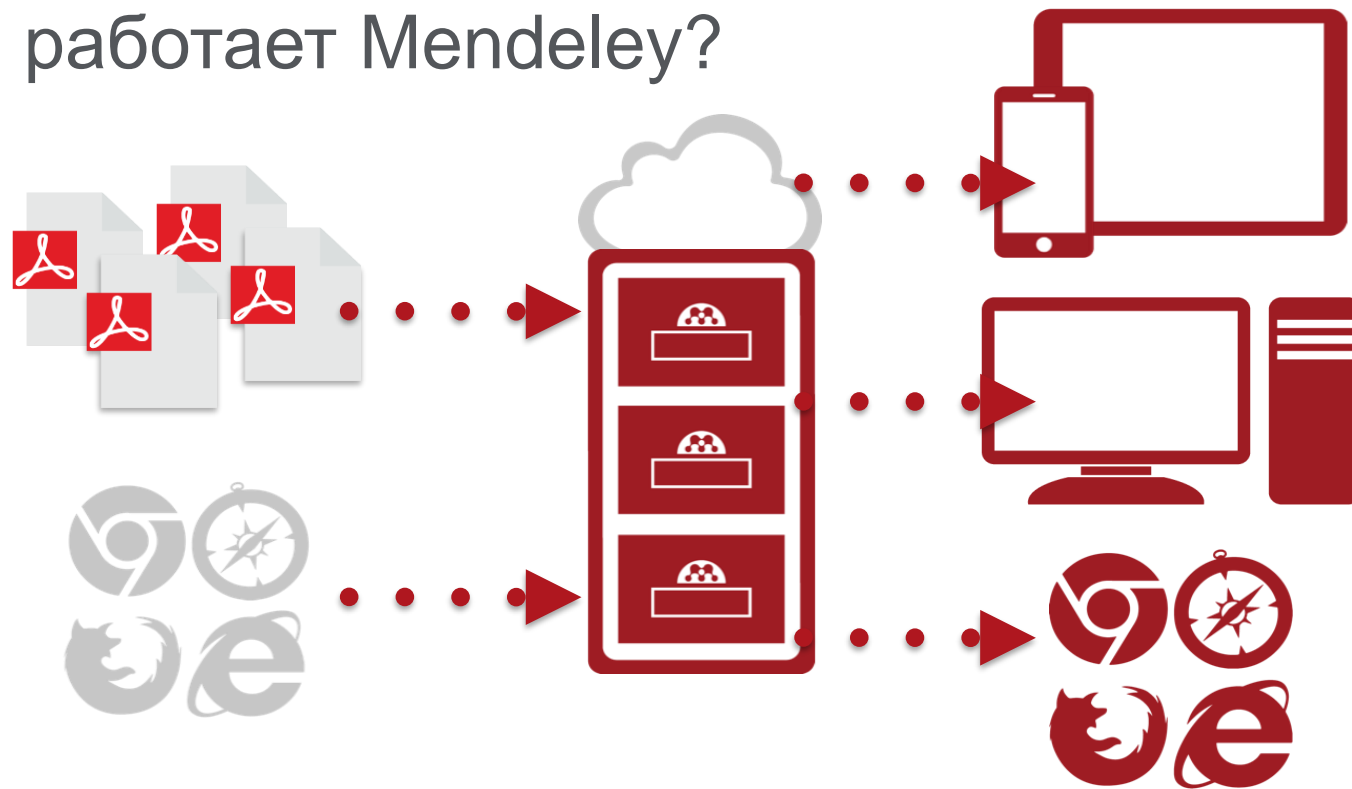
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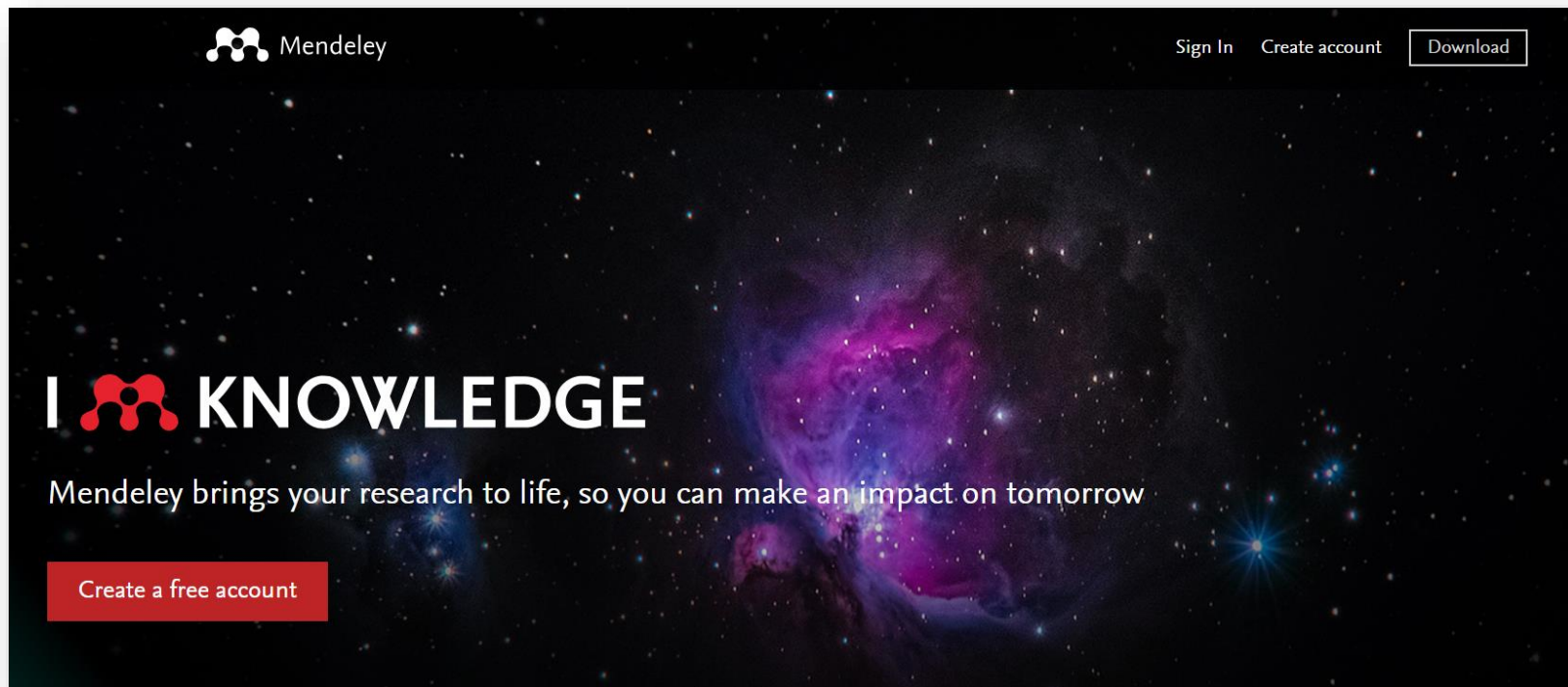


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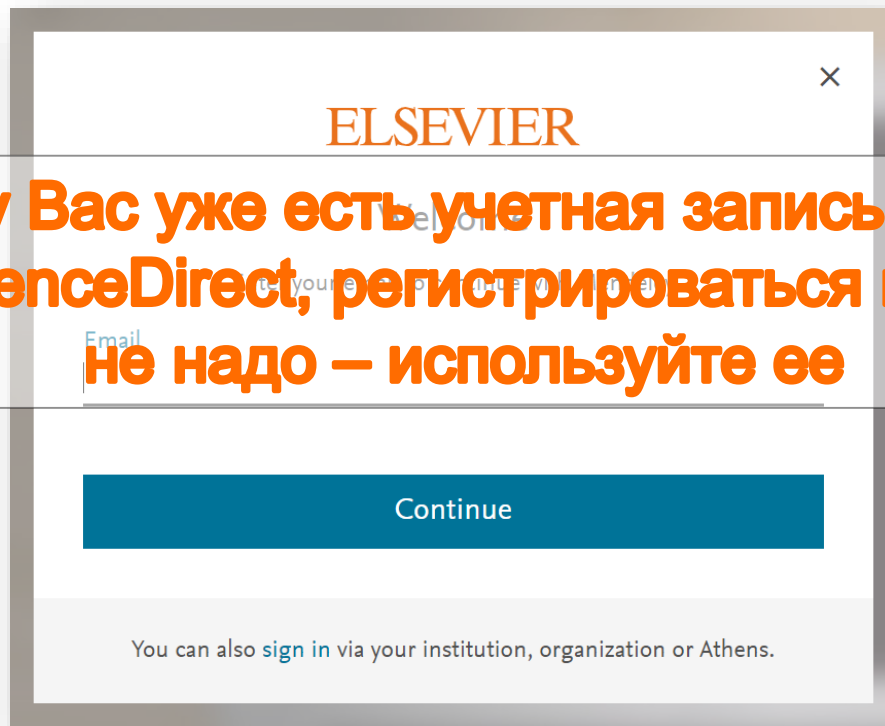
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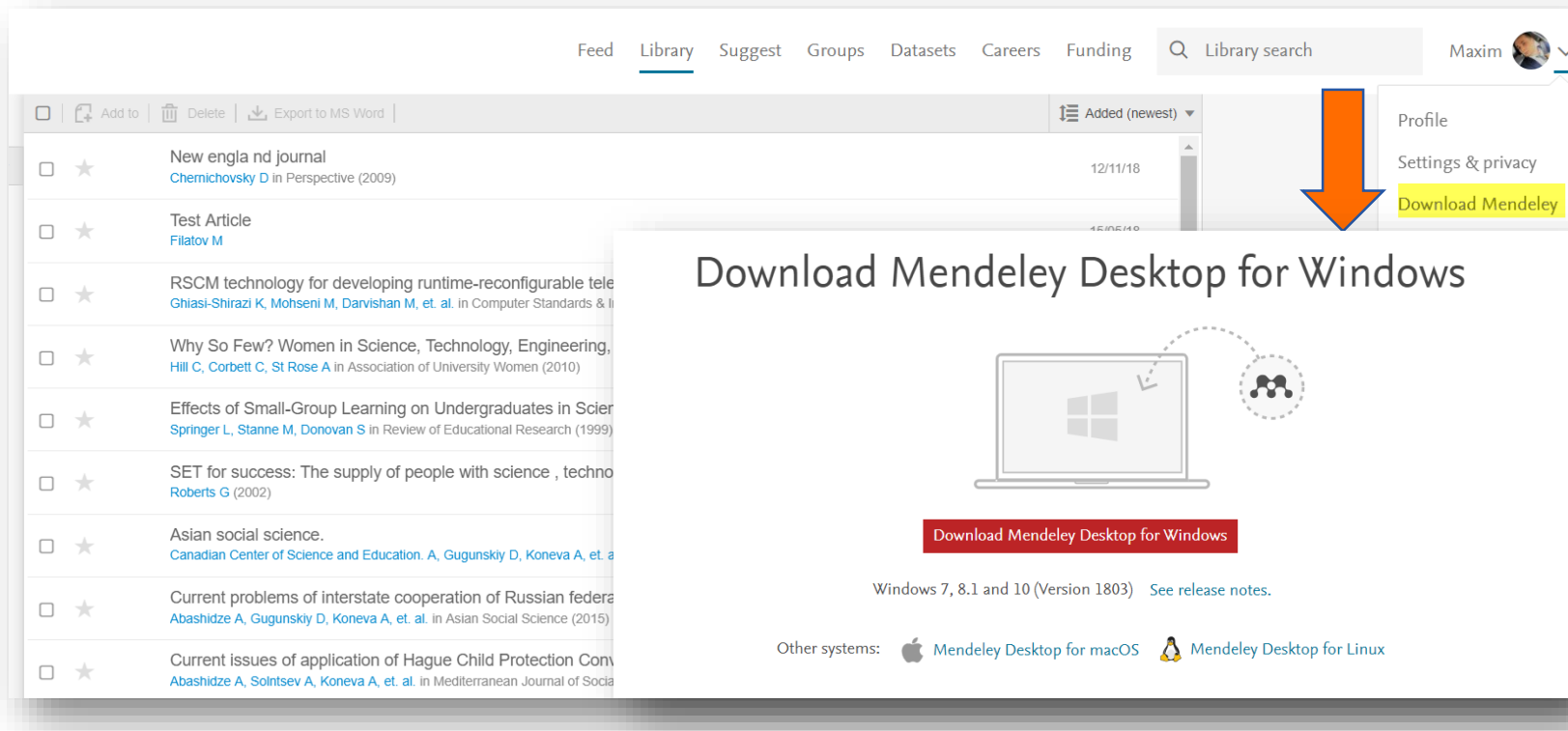
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Impact of the "Symmetric Instability of the Computational Kind" at mesoscale- and submesoscale-permitting r...

Authors: N. Ducouso, J. Le Sommer, J. Molines et al.

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Journal: *Ocean Modelling*

Year: 2017
Volume: 120
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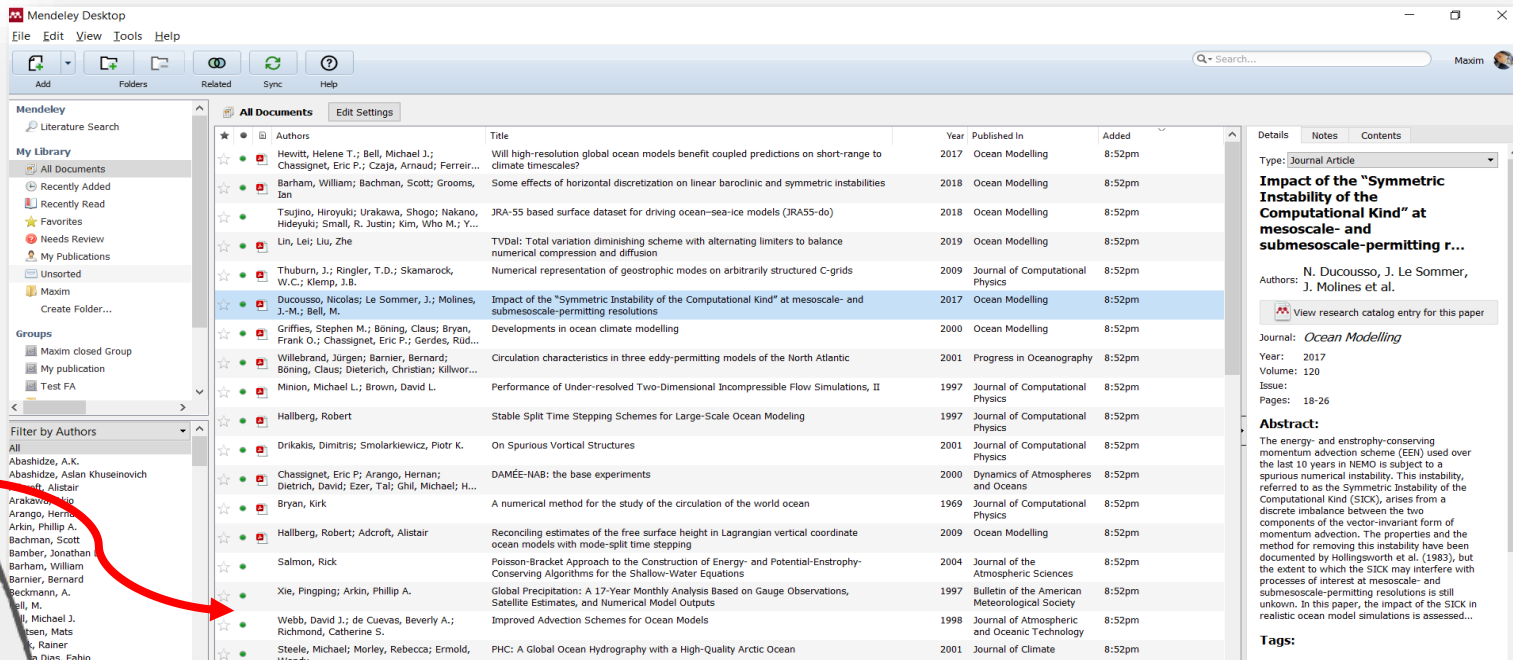
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The energy- and enstrophy-conserving momentum advection scheme (EEN) used over the last 10 years in NEMO is subject to a spurious numerical instability. This instability, referred to as the Symmetric Instability of the Computational Kind (SICK), arises from a discrete imbalance between the two components of the vector-invariant form of momentum advection. The properties and the method for removing this instability have been documented by Hollingsworth et al. (1993), but the extent to which the SICK may interfere with processes of interest at mesoscale- and submesoscale-permitting resolutions is still unknown. In this paper, the impact of the SICK in realistic ocean model simulations is assessed...

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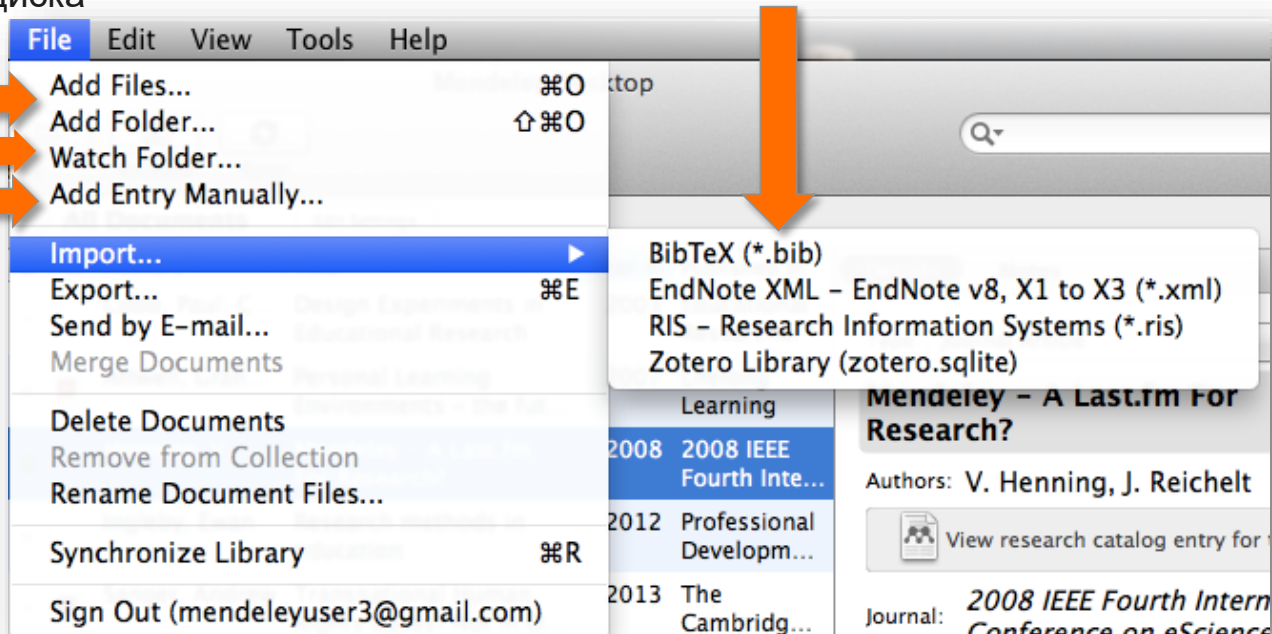
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Ducouso N, Le Sommer J, Molines J, Bell M

Ocean Modelling
2017 vol. 120 pp: 18-26

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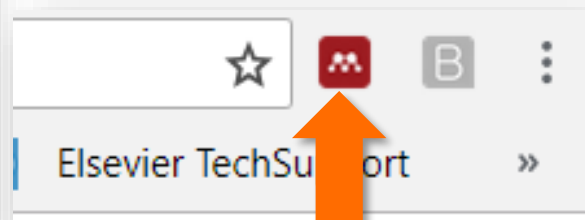
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The screenshot shows a Google Scholar search for 'Mendeley'. The search bar contains 'Mendeley' and the search button is highlighted with an orange arrow. The search results list several articles. The first result is 'Mendeley-a last. fm for research?' by Henning and Reichelt. The second is 'F1000, Mendeley and traditional bibliometric indicators' by Li and Thelwall. The third is 'Mendeley: Creating communities of scholarly inquiry through research collaboration' by Zaugg, West, Tateishi, and Randall. The 'Web Library' sidebar is open on the right, showing a list of selected items with checkboxes. An orange arrow points to the 'Save (2)' button in the sidebar. The sidebar also shows options for downloading PDFs and details for each item.

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The screenshot shows the ScienceDirect search results page. The search query is "Impact of partial steps and momentum advection schemes". The results are filtered to 1,312 items. The first result is a research article from Ocean Modelling, Volume 29, Issue 1, 2009, Pages 1-14, by Julien Le Sommer, Thierry Penduff, Sébastien Theetten, Gurvan Madec, and Bernard Barnier. The second result is from Ocean Modelling, Volume 120, December 2017, Pages 18-26, by Nicolas Ducouso, J. Le Sommer, J.-M. Molines, and M. Bell. A "Web Library" sidebar is open on the right, showing a list of selected articles with checkboxes. An orange arrow points to the "Save (1)" button in the sidebar. Another orange arrow points to the search bar area at the top of the page.

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| <input type="checkbox"/> Название источника | <input type="checkbox"/> Издатель | | <input type="checkbox"/> Текст о финансировании | <input type="checkbox"/> Включить приставочные ссылки |
| <input type="checkbox"/> том, выпуск, страницы | <input type="checkbox"/> Редактор (ы) | | | |
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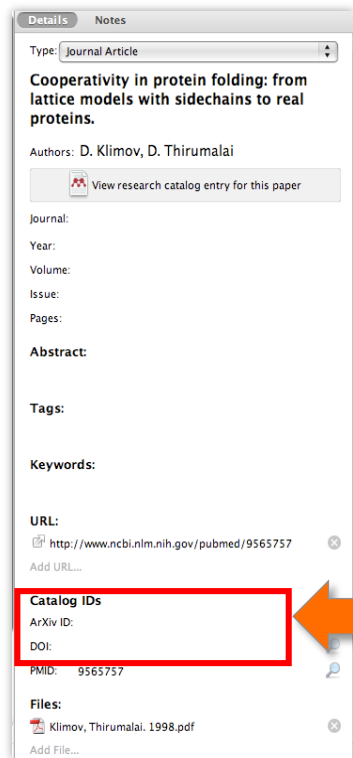
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The screenshot displays the Mendeley Desktop application. The 'Sync' button in the top toolbar is highlighted with a red box. In the document list, the entry 'Barham, William; Bachman, Scott; Grooms, Ian' is also highlighted with a red box. The details panel on the right shows the title 'Some effects of horizontal discretization on linear baroclinic and symmetric instabilities' and the authors 'W. Barham, S. Bachman, I. Grooms'.

Authors	Title	Year	Published In	Added
Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
Barham, William; Bachman, Scott; Grooms, Ian	Some effects of horizontal discretization on linear baroclinic and symmetric instabilities	2018	Ocean Modelling	8:52pm
Tsujino, Hiroyuki; Urakawa, Shogo; Nakano, Hideyuki; S...	JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do)	2018	Ocean Modelling	8:52pm
Lin, Lei; Liu, Zhe	TVDal: Total variation diminishing scheme with alternating limiters to balance numerical compression and diffusion	2019	Ocean Modelling	8:52pm
Thuburn, J.; Ringler, T.D.; Skamarock, W.C.; Klemp, J.B.	Numerical representation of geostrophic modes on arbitrarily structured C-grids	2009	Journal of Computation...	8:52pm
Ducouso, Nicolas; Le Sommer, J.; Molines, J.-M.; ...	Impact of the "Symmetric Instability of the Computational Kind" at mesoscale- and submesoscale-permitting resolutions	2017	Ocean Modelling	8:52pm
Griffies, Stephen M.; Böning, Claus; Bryan, Frank O.; Cha...	Developments in ocean climate modelling	2000	Ocean Modelling	8:52pm
Willbrand, Jürgen; Barnier, Bernard; Böning, Claus; Die...	Circulation characteristics in three eddy-permitting models of the North Atlantic	2001	Progress in Oceanography	8:52pm
Minion, Michael L.; Brown, David L.	Performance of Under-resolved Two-Dimensional Incompressible Flow Simulations, II	1997	Journal of Computation...	8:52pm
Hallberg, Robert	Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling	1997	Journal of Computation...	8:52pm
Drikakis, Dimitris; Smolarkiewicz, Piotr K.	On Spurious Vortical Structures	2001	Journal of Computation...	8:52pm
Chassignet, Eric P; Arango, Hernan; Dietrich, David; Eze...	DAMÉE-NAB: the base experiments	2000	Dynamics of Atmospheres...	8:52pm
Bryan, Kirk	A numerical method for the study of the circulation of the world ocean	1969	Journal of Computation...	8:52pm
Hallberg, Robert; Adcroft, Alistair	Reconciling estimates of the free surface height in Lagrangian vertical coordinate ocean models with mode-split time stepping	2009	Ocean Modelling	8:52pm



Поиск сведений о документе




Details Notes

Type: Journal Article

Cooperativity in protein folding: from lattice models with sidechains to real proteins.

Authors: D. Klimov, D. Thirumalai

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Pages:

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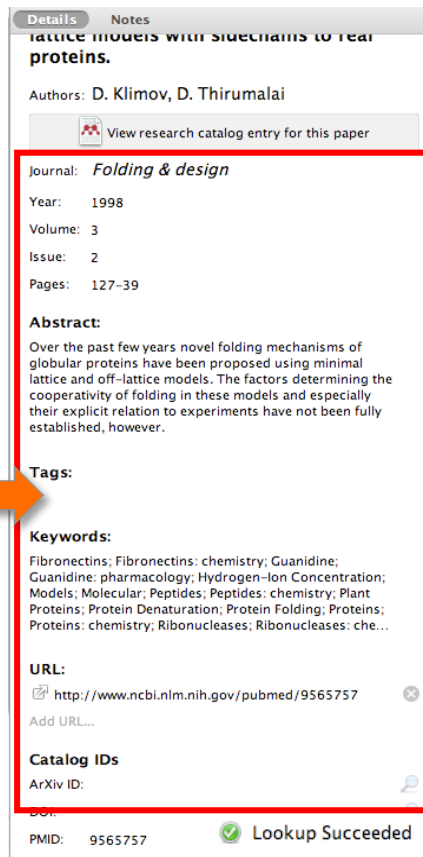
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lattice models with sidechains to real proteins.

Authors: D. Klimov, D. Thirumalai

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Journal: *Folding & design*

Year: 1998

Volume: 3

Issue: 2

Pages: 127-39


Abstract:

Over the past few years novel folding mechanisms of globular proteins have been proposed using minimal lattice and off-lattice models. The factors determining the cooperativity of folding in these models and especially their explicit relation to experiments have not been fully established, however.

Tags:

Keywords:

Fibronectins; Fibronectins: chemistry; Guanidine; Guanidine: pharmacology; Hydrogen-Ion Concentration; Models; Molecular; Peptides; Peptides: chemistry; Plant Proteins; Protein Denaturation; Protein Folding; Proteins; Proteins: chemistry; Ribonucleases; Ribonucleases: che...


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Authors	Title	Year	Published In	Added
Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric ...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
Barham, William; Bachman, Scott; Grooms, Ian	Some effects of horizontal discretization on linear baroclinic and symmetric instabilities	2018	Ocean Modelling	8:52pm
Tsujino, Hiroyuki; Urakawa, Shogo; Nakano, Hideyuki; S...	JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do)	2018	Ocean Modelling	8:52pm
Lin, Lei; Liu, Zhe	TVDal: Total variation diminishing scheme with alternating limiters to balance numerical compression and diffusion	2019	Ocean Modelling	8:52pm
Thuburn, J.; Ringler, T.D.; Skamarock, W.C.; Klemp, J.B.	Numerical representation of geostrophic modes on arbitrarily structured C-grids	2009	Journal of Computation...	8:52pm
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Griffies, Stephen M.; Böning, Claus; Bryan, Frank O.; Cha...	Developments in ocean climate modelling	2000	Ocean Modelling	8:52pm
Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; Die...	Circulation characteristics in three eddy-permitting models of the North Atlantic	2001	Progress in Oceanography	8:52pm
Minion, Michael L.; Brown, David L.	Performance of Under-resolved Two-Dimensional Incompressible Flow Simulations, II	1997	Journal of Computation...	8:52pm
Hallberg, Robert	Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling	1997	Journal of Computation...	8:52pm
Drikakis, Dimitris; Smolarkiewicz, Piotr K.	On Spurious Vortical Structures	2001	Journal of Computation...	8:52pm
Chassignet, Eric P; Arango, Hernan; Dietrich, David; Eze...	DAMÉE-NAB: the base experiments	2000	Dynamics of Atmospheres...	8:52pm



Поиск и работа в PDF Viewer

The screenshot shows the Mendeley Desktop application window. The title bar reads "Mendeley Desktop". The menu bar includes "File", "Edit", "View", "Go", "Tools", and "Help". The toolbar contains icons for "Select", "Pan", "Note", "Highlight", "Color", "Zoom", "Zoom To Fit", "Fullscreen", "Sync", and "Help". A search bar in the top right corner contains the text "Q - predi". Below the toolbar, a tabbed interface shows several open documents, with the active tab titled "Performance of Under-res...". The main content area displays a search result for "Ocean Modelling 120 (2017) 120-136". The article title is "Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?". The authors listed are Helene T. Hewitt, Michael J. Bell, Eric P. Chassignet, Arnaud Czaja, David Ferreira, Stephen M. Griffies, Pat Hyder, Julie L. McClean, Adrian L. New, and Malcolm J. Roberts. A floating note from "Maxim Filatov" is overlaid on the article text, stating "I guess it is inresting article!". The right-hand pane shows the article's details, including the journal name "Ocean Modelling", volume "120", and pages "120-136". The abstract text is visible in the right pane.

Showing match 1 of 43

Ocean Modelling 120 (2017) 120-136

Contents lists available at ScienceDirect

Ocean Modelling

journal homepage: www.elsevier.com/locate/ocemod

Review

Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?

Helene T. Hewitt^{a,*}, Michael J. Bell^a, Eric P. Chassignet^b, Arnaud Czaja^c, David Ferreira^d, Stephen M. Griffies^e, Pat Hyder^f, Julie L. McClean^g, Adrian L. New^h, Malcolm J. Roberts^a

^a Met Office, Fitzroy Road, Exeter, UK
^b Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University, Tallahassee, FL, USA
^c Imperial College London, Department of Physics, Space & Atmospheric Physics Group, London, UK
^d Department of Meteorology, University of Reading, Reading, UK
^e NOAA/Geophysical Fluid Dynamics Laboratory, Princeton, USA
^f Scripps Institute of Oceanography, University of California, San Diego, La Jolla, California, USA
^g National Oceanography Centre, Southampton, UK

ARTICLE INFO

Keywords:
Resolution
Parameterisation

ABSTRACT

As the importance of the ocean in the weather and climate system is increasingly recognised, operational systems are now moving towards coupled prediction not only for seasonal to climate timescales but also for short-range forecasts. A three-way tension exists between the allocation of computing resources to refine model resolution, the expansion of model complexity/capability, and the increase of ensemble size. Here we review evidence for the benefits of increased ocean resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questions.

Maxim Filatov Just now

I guess it is inresting article!

Type: Journal Article

Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?

Authors: H. Hewitt, M. Bell, E. Chassignet et al.

Journal: *Ocean Modelling*

Year: 2017

Volume: 120

Issue:

Pages: 120-136

Abstract:

As the importance of the ocean in the weather and climate system is increasingly recognised, operational systems are now moving towards coupled prediction not only for seasonal to climate timescales but also for short-range forecasts. A three-way tension exists between the allocation of computing resources to refine model resolution, the expansion of model complexity/capability, and the increase of ensemble size. Here we review evidence for the benefits of increased ocean resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questions.

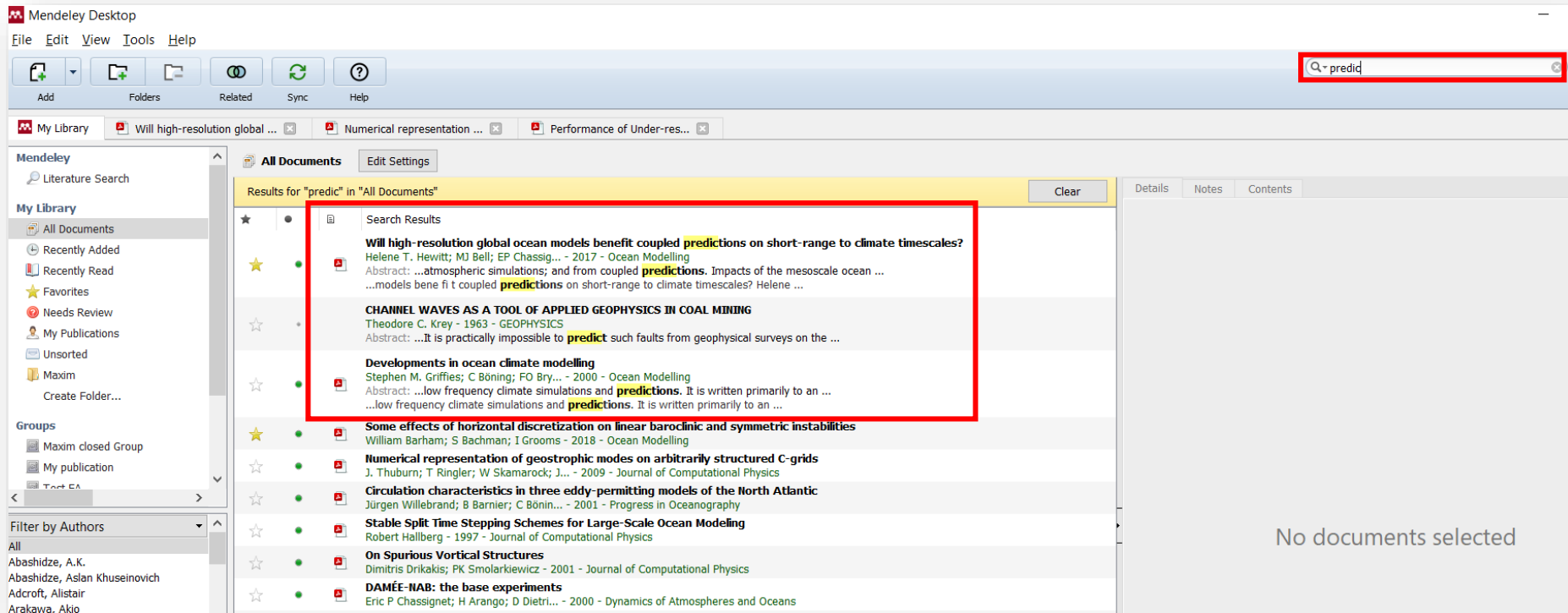
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- Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?**
Helene T. Hewitt; MJ Bell; EP Chassignet... - 2017 - Ocean Modelling
Abstract: ...atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean ...
...models bene fit coupled predictions on short-range to climate timescales? Helene ...
- CHANNEL WAVES AS A TOOL OF APPLIED GEOPHYSICS IN COAL MINING**
Theodore C. Krey - 1963 - GEOPHYSICS
Abstract: ...It is practically impossible to predict such faults from geophysical surveys on the ...
- Developments in ocean climate modelling**
Stephen M. Griffies; C Böning; FO Bry... - 2000 - Ocean Modelling
Abstract: ...low frequency climate simulations and predictions. It is written primarily to an ...
...low frequency climate simulations and predictions. It is written primarily to an ...
- Some effects of horizontal discretization on linear baroclinic and symmetric instabilities**
William Barham; S Bachman; IGrooms - 2018 - Ocean Modelling
- Numerical representation of geostrophic modes on arbitrarily structured C-grids**
J. Thuburn; T Ringler; W Skamarock; J... - 2009 - Journal of Computational Physics
- Circulation characteristics in three eddy-permitting models of the North Atlantic**
Jürgen Willebrand; B Barnier; C Böning... - 2001 - Progress in Oceanography
- Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling**
Robert Hallberg - 1997 - Journal of Computational Physics
- On Spurious Vortical Structures**
Dimitris Dritakis; PK Smolarkiewicz - 2001 - Journal of Computational Physics
- DAMÉE-IAB: the base experiments**
Eric P Chassignet; H Arango; D Dietri... - 2000 - Dynamics of Atmospheres and Oceans

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Использование Тэгов(Tags) в Mendeley

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★	📄	👤	Authors	Title	Year	Published In	Added
★	📄	👤	Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric ...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
★	📄	👤	Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; Die...	Circulation characteristics in three eddy-permitting models of the North Atlantic	2001	Progress in Oceanography	8:52pm
★	📄	👤	Minion, Michael L.; Brown, David L.	Performance of Under-resolved Two-Dimensional Incompressible Flow Simulations, II	1997	Journal of Computation...	8:52pm
★	📄	👤	Le Sommer, Julien; Penduff, Thierry; Theetten, Sébastie...	How momentum advection schemes influence current-topography interactions at eddy permitting resolution	2009	Ocean Modelling	8:51pm

The left sidebar shows the "Filter by My Tags" section with the following options:

- All
- Project1
- Project2
- Project3

The right sidebar shows the details for the selected document:

Type: Journal Article

Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?

Authors: H. Hewitt, M. Bell, E. Chassignet et al.

Journal: *Ocean Modelling*

Year: 2017

Volume: 120

Issue:

Pages: 120-136

Abstract:

As the importance of the ocean in the weather and climate system is increasingly recognised, operational systems are now moving towards coupled prediction not only for seasonal to climate timescales but also for short-range forecasts. A three-way tension exists between the allocation of computing resources to refine model resolution, the expansion of model complexity/capability, and the increase of ensemble size. Here we review evidence for the benefits of increased ocean resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddy ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questi...

Tags:

- Project2



Возможность переименовать документы

The screenshot displays the Mendeley Desktop interface. The main window shows a list of documents under the 'All Documents' tab, filtered by the tag 'project2'. The table columns are Authors, Title, Year, Published In, and Added. A 'Rename Document Files' dialog box is open in the foreground, allowing the user to rename the selected document. The dialog shows 'Unused fields: Journal' and 'File name: Year Author Title'. An example filename is provided: '2017 - Hewitt et al. - Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales.pdf'. The dialog also includes a 'Hyphen-separated' dropdown and 'OK' and 'Cancel' buttons.

★	●	📄	Authors	Title	Year	Published In	Added
★	●	📄	Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
★	●	📄	Barham, William; Bachman, Scott; Grooms, Ian	Some effects of horizontal discretization on linear baroclinic and symmetric instabilities	2018	Ocean Modelling	8:52pm
★	●	📄	Tsujino, Hiroyuki; Urakawa, Shogo; Nakano, Hideyuki; ...	JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do)	2018	Ocean Modelling	8:52pm
☆	●	📄	Lin, Lei; Liu, Zhe	TVDal: Total variation diminishing scheme with alternating	2019	Ocean	8:52pm
☆	●	📄	Thuburn, J.; Ringler, T.J.; Skamarock, W.C.; Klemm				
☆	●	📄	Ducouso, Nicolas; Le Sommer, J.; Molines, J.				
☆	●	📄	Griffies, Stephen M.; Böning, Claus; Bryan, Frank O.;				
☆	●	📄	Willebrand, Jürgen; Barber, David L.				
☆	●	📄	Minion, Michael L.; Brown, David L.				
☆	●	📄	Hallberg, Robert	Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling	1997	Journal of Computation...	8:52pm
☆	●	📄	Drikakis, Dimitris; Smolarkiewicz, Piotr K.	On Spurious Vortical Structures	2001	Journal of Computation...	8:52pm
☆	●	📄	Chassignet, Eric P.; Arango, Hernan; Dietrich, David; Ez...	DAMÉE-NAB: the base experiments	2000	Dynamics of Atmosphere...	8:52pm
☆	●	📄	Bryan, Kirk	A numerical method for the study of the circulation of the world ocean	1969	Journal of Computation...	8:52pm
☆	●	📄	Hallberg, Robert; Adcroft, Alistair	Reconciling estimates of the free surface height in Lagrangian vertical coordinate ocean models with mode-split time stepp...	2009	Ocean Modelling	8:52pm
☆	●	📄	Salmon, Rick	Poisson-Bracket Approach to the Construction of Energy- and	2004	Journal of the	8:52pm

Details | Notes | Contents

Type: Journal Article

Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?

Authors: H. Hewitt, M. Bell, E. Chassignet et al.

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er and climate system is increasingly recognised, is coupled prediction not only for seasonal to climate. A three-way tension exists between the allocation lution, the expansion of model complexity/capability, review evidence for the benefits of increased ocean

resolution in global coupled models, where the ocean component explicitly represents transient mesoscale eddies and narrow boundary currents. We consider lessons learned from forced ocean/sea-ice simulations; from studies concerning the SST resolution required to impact atmospheric simulations; and from coupled predictions. Impacts of the mesoscale ocean in western boundary current regions on the large-scale atmospheric state have been identified. Understanding of air-sea feedback in western boundary currents is modifying our view of the dynamics in these key regions. It remains unclear whether variability associated with open ocean mesoscale eddies is equally important to the large-scale atmospheric state. We include a discussion of what processes can presently be parameterised in coupled models with coarse resolution non-eddying ocean models, and where parameterizations may fall short. We discuss the benefits of resolution and identify gaps in the current literature that leave important questi...

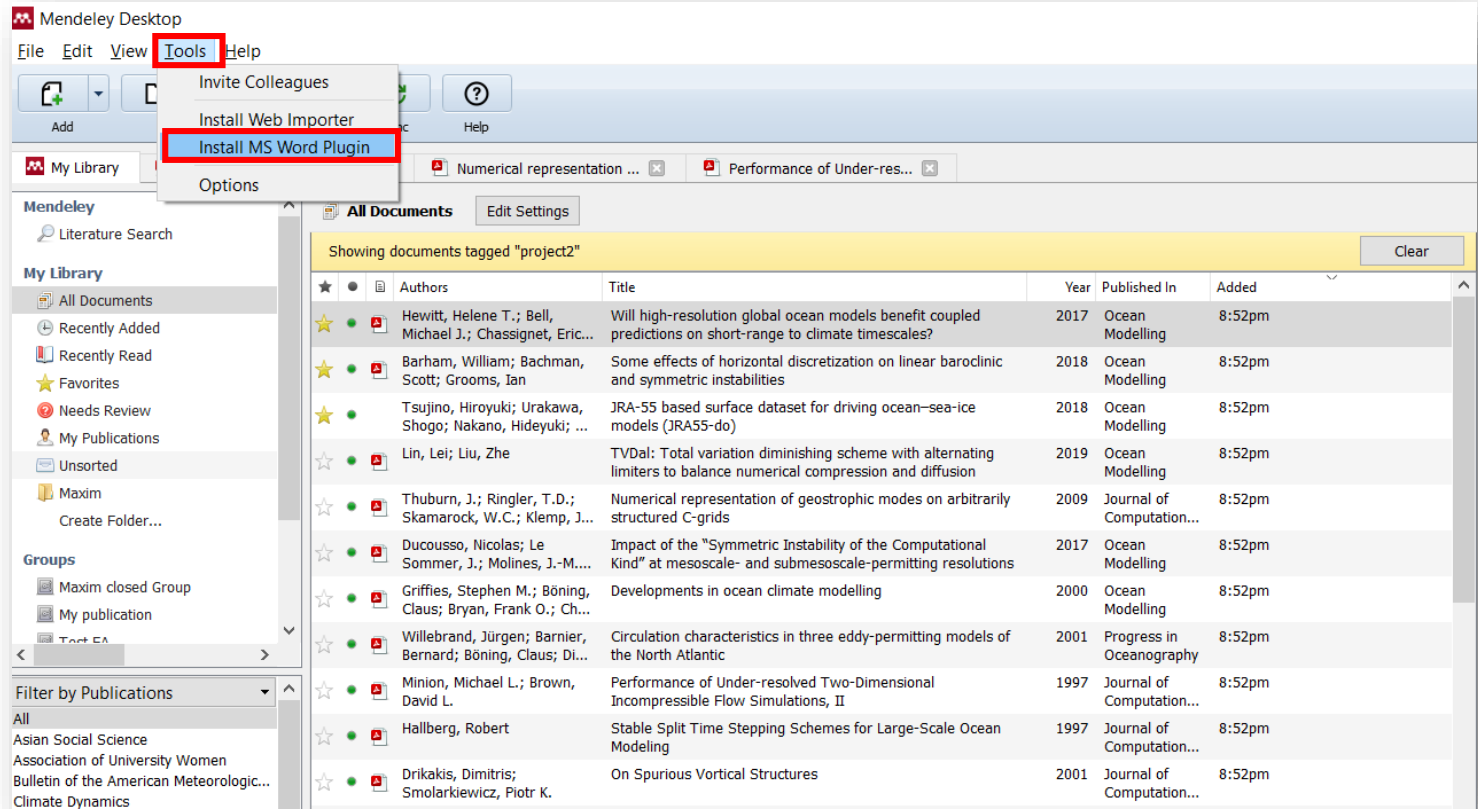
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Установка Citation Plugin для MS Word

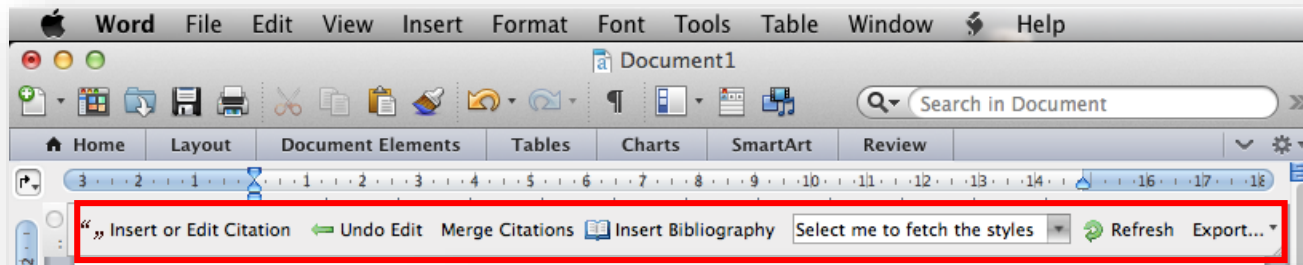


The screenshot shows the Mendeley Desktop application interface. The 'Tools' menu is open, and the 'Install MS Word Plugin' option is highlighted with a red box. The main window displays a list of documents tagged 'project2'.

★	📄	📄	Authors	Title	Year	Published In	Added
★	📄	📄	Hewitt, Helene T.; Bell, Michael J.; Chassignet, Eric...	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?	2017	Ocean Modelling	8:52pm
★	📄	📄	Barham, William; Bachman, Scott; Grooms, Ian	Some effects of horizontal discretization on linear baroclinic and symmetric instabilities	2018	Ocean Modelling	8:52pm
★	📄	📄	Tsujino, Hiroyuki; Urakawa, Shogo; Nakano, Hideyuki; ...	JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do)	2018	Ocean Modelling	8:52pm
☆	📄	📄	Lin, Lei; Liu, Zhe	TVDal: Total variation diminishing scheme with alternating limiters to balance numerical compression and diffusion	2019	Ocean Modelling	8:52pm
☆	📄	📄	Thuburn, J.; Ringler, T.D.; Skamarock, W.C.; Klemp, J...	Numerical representation of geostrophic modes on arbitrarily structured C-grids	2009	Journal of Computation...	8:52pm
☆	📄	📄	Ducouso, Nicolas; Le Sommer, J.; Molines, J.-M....	Impact of the "Symmetric Instability of the Computational Kind" at mesoscale- and submesoscale-permitting resolutions	2017	Ocean Modelling	8:52pm
☆	📄	📄	Griffies, Stephen M.; Böning, Claus; Bryan, Frank O.; Ch...	Developments in ocean climate modelling	2000	Ocean Modelling	8:52pm
☆	📄	📄	Willebrand, Jürgen; Barnier, Bernard; Böning, Claus; Di...	Circulation characteristics in three eddy-permitting models of the North Atlantic	2001	Progress in Oceanography	8:52pm
☆	📄	📄	Minion, Michael L.; Brown, David L.	Performance of Under-resolved Two-Dimensional Incompressible Flow Simulations, II	1997	Journal of Computation...	8:52pm
☆	📄	📄	Hallberg, Robert	Stable Split Time Stepping Schemes for Large-Scale Ocean Modeling	1997	Journal of Computation...	8:52pm
☆	📄	📄	Drikakis, Dimitris; Smolarkiewicz, Piotr K.	On Spurious Vortical Structures	2001	Journal of Computation...	8:52pm

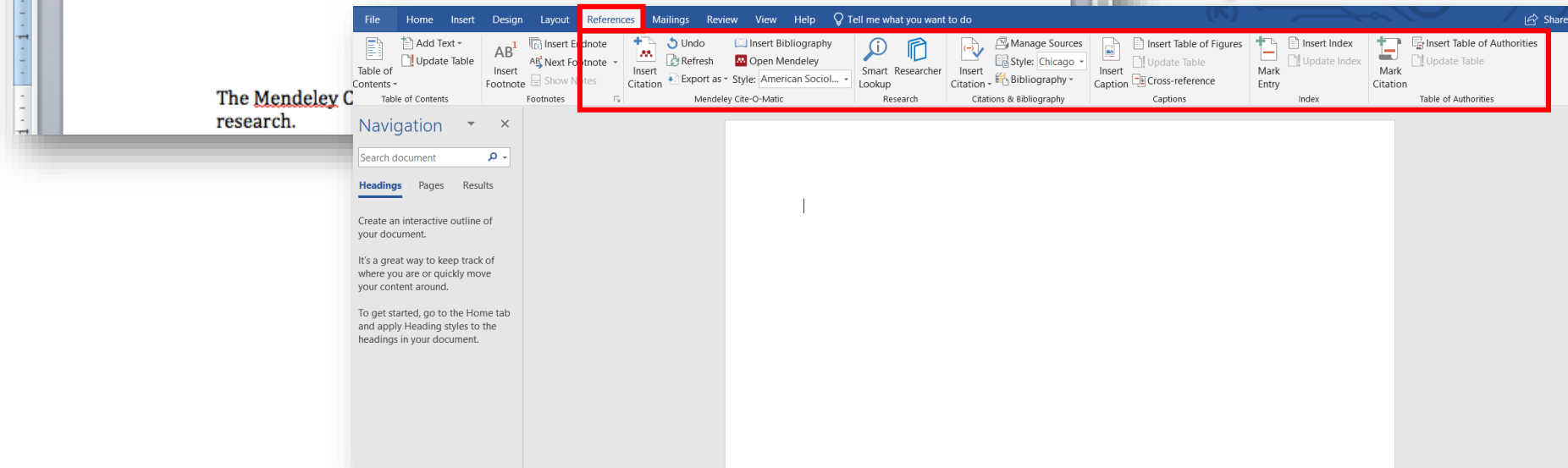


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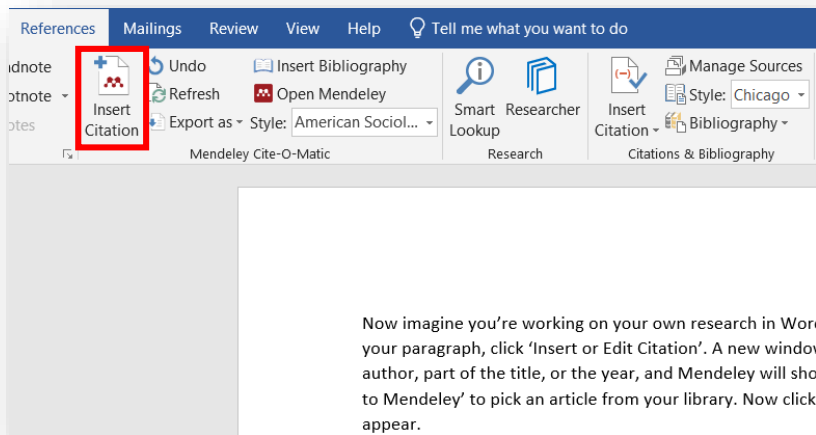


Mac OS

Windows OS



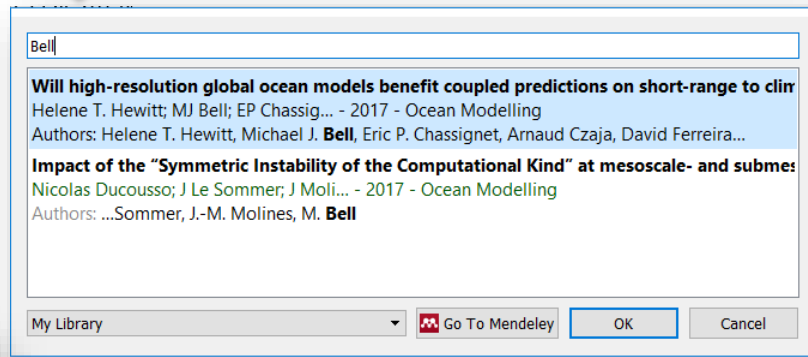
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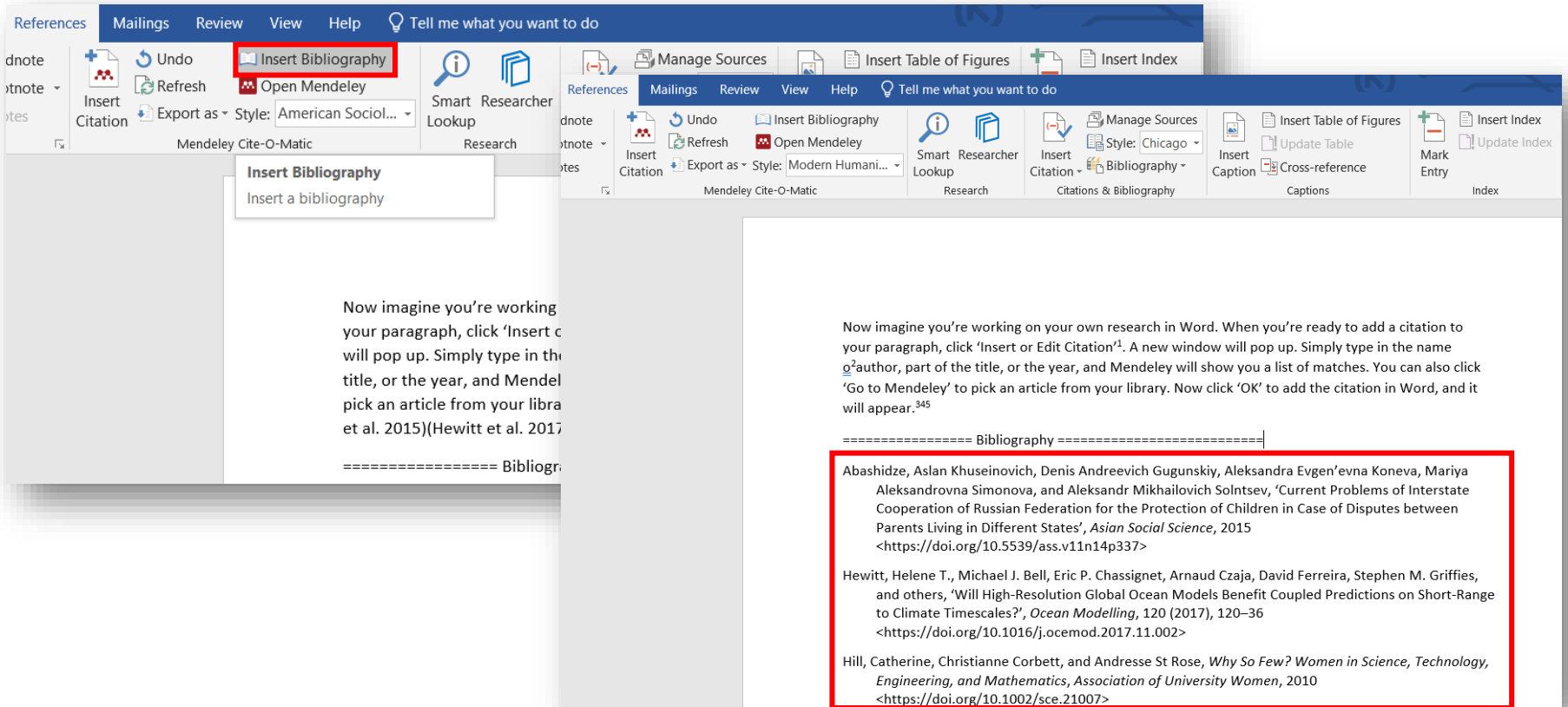
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==== Bibliography =====

Abashidze, Aslan Khuseinovich, Denis Andreevich Gugunskiy, Aleksandra Evgen'evna Koneva, Mariya Aleksandrovna Simonova, and Aleksandr Mikhailovich Solntsev, 'Current Problems of Interstate Cooperation of Russian Federation for the Protection of Children in Case of Disputes between Parents Living in Different States', *Asian Social Science*, 2015
<<https://doi.org/10.5539/ass.v11n14p337>>

Hewitt, Helene T., Michael J. Bell, Eric P. Chassignet, Arnaud Czaja, David Ferreira, Stephen M. Griffies, and others, 'Will High-Resolution Global Ocean Models Benefit Coupled Predictions on Short-Range to Climate Timescales?', *Ocean Modelling*, 120 (2017), 120–36
<<https://doi.org/10.1016/j.ocemod.2017.11.002>>

Hill, Catherine, Christianne Corbett, and Andresse St Rose, *Why So Few? Women in Science, Technology, Engineering, and Mathematics, Association of University Women*, 2010
<<https://doi.org/10.1002/sce.21007>>



Выбор стиля для ссылок и библиографии

The image shows the Microsoft Word interface with the References ribbon active. The 'Style' dropdown menu is open, showing a list of citation styles. The 'Citation Styles' dialog box is also open, displaying a search for 'GOST' and a list of results. The 'Russian GOST R 7.0.5-2008 (numeric)' style is selected in the dialog.

References Ribbon:

- Insert Bibliography
- Open Mendeley
- Style: Modern Humanities...
- Smart Researcher
- Manage Sources
- Style: Chicago
- Insert Table of Figures
- Insert Index
- Update Table
- Update Index
- Insert Citation
- Insert Caption
- Cross-reference
- Mark Entry

Citation Styles Dialog:

- Installed
- Get More Styles
- Abbreviations
- About
- Search: GOST
- Russian GOST R 7.0.5-2008 (Russian) [Installed]
- Russian GOST R 7.0.5-2008 (numeric) [Selected]
- Russian GOST R 7.0.5-2008 (numeric, sorted alphabetically, Russian)
- Download Style: Enter URL [Download]
- Done

Document Content:

will appear.²⁹⁵

=====**Bibliography**=====

Abashidze, Aslan Khuseinovich, Denis Andreevich Gugunskiy, Aleks Aleksandrovna Simonova, and Aleksandr Mikhailovich Solntse Cooperation of Russian Federation for the Protection of Child Parents Living in Different States', *Asian Social Science*, 2015 <<https://doi.org/10.5539/ass.v11n14p337>>



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Mendeley как социальная сеть. Работа в группах



Установить контакт с коллегами

The screenshot shows a search interface on a research platform. At the top, there are navigation links: Feed, Library, Suggest, Groups, Datasets, Careers, Funding, Search, and a user profile for Maxim. Below the navigation is a search bar with the text 'Sergey' and a 'Search' button. The search results are displayed in a list format, showing the first four results. Each result includes a circular profile picture with initials, the name, and a 'Follow' button. The results are: Loshkaryov Sergey (LS), Kovelonov Sergey (KS), Nadia Sergey (NS), and Grishin Sergey (Grishin Sergey, Rossijskij ekonomiceskij universitet imeni G V Plehanova). The search bar and the first two tabs ('Papers', 'People', 'Groups') are highlighted with a red box. An orange arrow points from the text on the left to the 'Follow' button of the Grishin Sergey profile.

Feed Library Suggest Groups Datasets Careers Funding Search Search Maxim

Papers People Groups

Q Sergey Search

Results 1-20 of 2,924 1 2 3 4 5 ... Next >

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LS Follow

Kovelonov Sergey
KS Follow

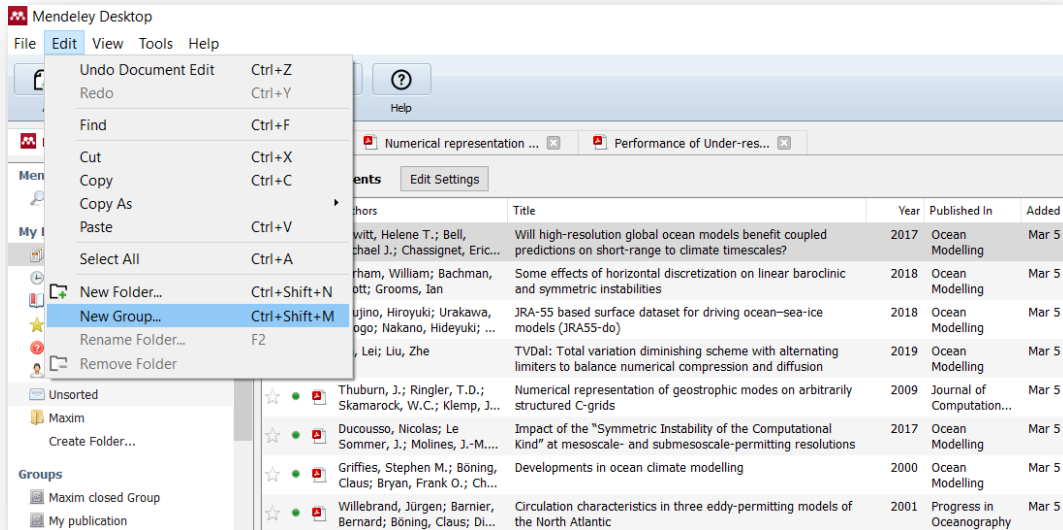
Nadia Sergey
NS Follow

Grishin Sergey
Rossijskij ekonomiceskij universitet imeni G V Plehanova
Follow

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регулярных обновлений.



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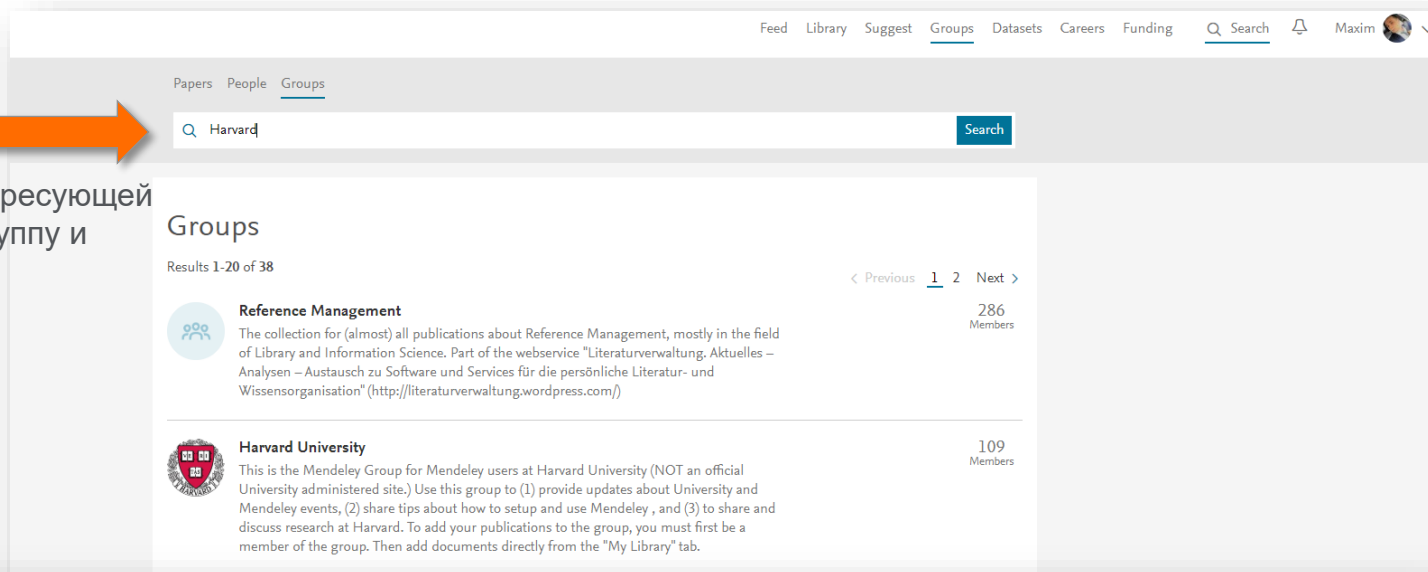


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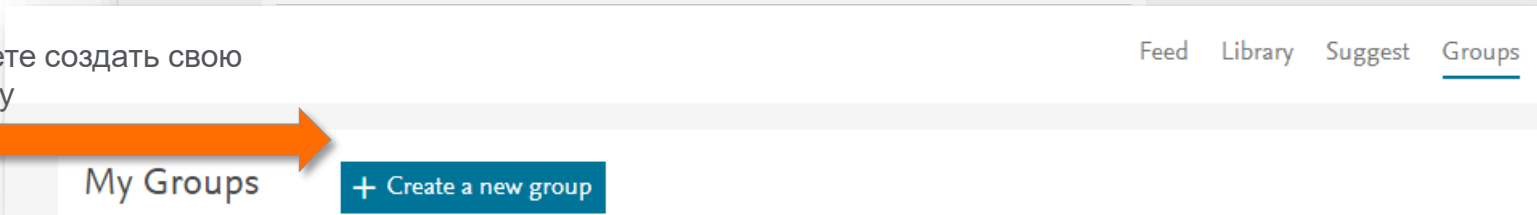
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Groups

Results 1-20 of 38 < Previous 1 2 Next >

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	Harvard University This is the Mendeley Group for Mendeley users at Harvard University (NOT an official University administered site.) Use this group to (1) provide updates about University and Mendeley events, (2) share tips about how to setup and use Mendeley , and (3) to share and discuss research at Harvard. To add your publications to the group, you must first be a member of the group. Then add documents directly from the "My Library" tab.	109 Members

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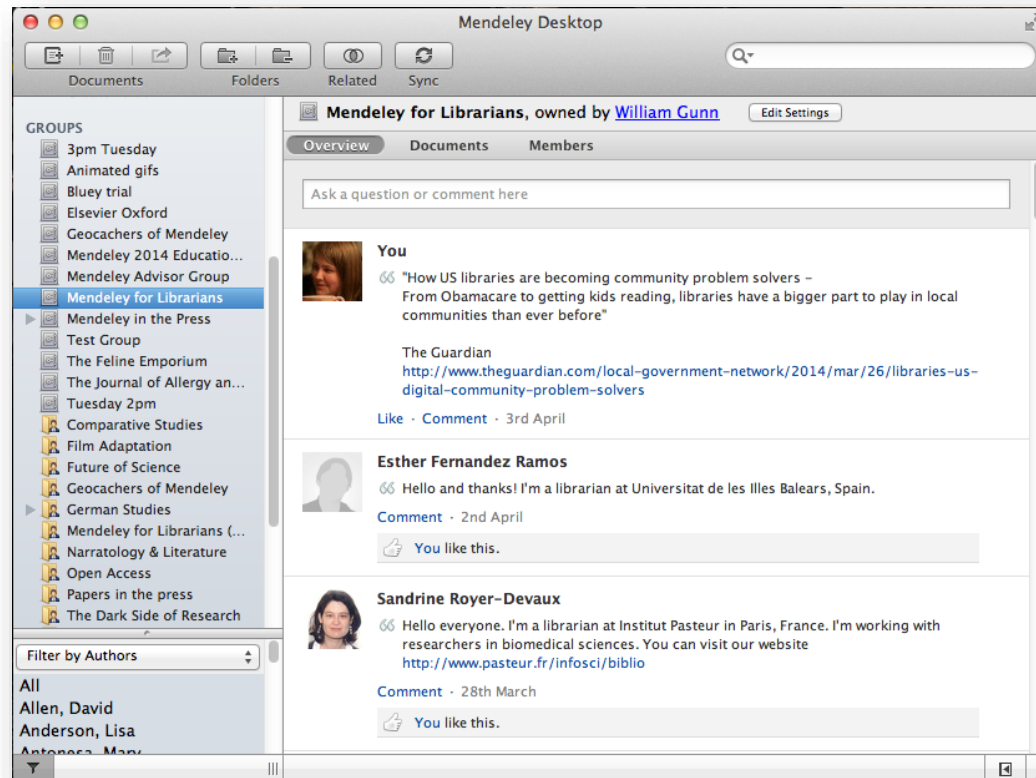


Feed Library Suggest Groups

My Groups + Create a new group



Отслеживание активности группы



The screenshot displays the Mendeley Desktop application interface. The window title is "Mendeley Desktop". The top toolbar includes icons for Documents, Folders, Related, and Sync, along with a search bar. The left sidebar shows a list of groups, with "Mendeley for Librarians" selected and highlighted in blue. Below the group list is a filter dropdown set to "Filter by Authors" and a list of authors including "All", "Allen, David", "Anderson, Lisa", and "Antonia, Mary". The main content area shows the group page for "Mendeley for Librarians, owned by William Gunn". It has tabs for "Overview", "Documents", and "Members". A text input field at the top of the main area says "Ask a question or comment here". Below this, there are three posts:

- You**: A quote from The Guardian: "How US libraries are becoming community problem solvers - From Obamacare to getting kids reading, libraries have a bigger part to play in local communities than ever before". Includes a link to <http://www.theguardian.com/local-government-network/2014/mar/26/libraries--digital-community-problem-solvers> and interaction options: "Like · Comment · 3rd April".
- Esther Fernandez Ramos**: A comment: "Hello and thanks! I'm a librarian at Universitat de les Illes Balears, Spain." Includes interaction options: "Comment · 2nd April" and "You like this.".
- Sandrine Royer-Devaux**: A comment: "Hello everyone. I'm a librarian at Institut Pasteur in Paris, France. I'm working with researchers in biomedical sciences. You can visit our website <http://www.pasteur.fr/infosci/biblio>". Includes interaction options: "Comment · 28th March" and "You like this.".



Взаимодействуйте с вашими коллегами

The screenshot shows the Mendeley Desktop application window. The title bar reads "Mendeley Desktop". Below the title bar is a toolbar with icons for Pan, Highlight, Note, Select, Copy, Paste, Rotate, Zoom, Fullscreen, and Sync. The main window is divided into two panes. The left pane displays a document titled "A game for smokers: a preliminary naturalistic trial in a psychiatric hospital" by Yasser Khaazaal, Anne Chatton, Roberto Prezzemolo, Aliosca Hoch, Jacques Cornuz, and Daniele Zullino. The document includes an abstract, introduction, and keywords. The right pane shows a list of notes related to the document, with two notes visible: one dated 05/04/11 5:50 PM and another dated 06/04/11 5:46 PM. The bottom of the window shows "Page 1 of 4".

Short communication

A game for smokers: A preliminary naturalistic trial in a psychiatric hospital

Yasser Khaazaal^{a,*}, Anne Chatton^a, Roberto Prezzemolo^a, Aliosca Hoch^a, Jacques Cornuz^b, Daniele Zullino^a

^a Division of Substance Abuse, University Hospitals of Geneva, Switzerland
^b Department of Ambulatory Care and Community Medicine, University Hospital, Lausanne, Switzerland

Received 5 June 2007; received in revised form 4 October 2007; accepted 8 October 2007

Abstract

Objective: "Pick-Klop" is a game based on cognitive behavioral therapy. It aims to change smokers' attitudes towards tobacco addiction. This study tests the feasibility and the impact of one brief session of the intervention in a naturalistic setting within a psychiatric hospital.

Method: Fifty-one smokers were recruited during their stay in a psychiatric hospital with a prohibitive smoking policy. They were assessed pre- and post-treatment with visual analogue scales designed to evaluate their intention to stop smoking.

Results: All patients completed the intervention. The outcome shows that the intention to stop smoking becomes significantly stronger after the intervention.

Conclusion: This pilot study supports the feasibility and the effectiveness of the "Pick-Klop" game in a psychiatric hospital setting. The game seems to improve the intention to quit smoking. The data, however, should be confirmed by a controlled trial. Moreover, follow-up studies are needed to examine the potential impact of the game on smoking cessation attempts.

Practical implications: The game seems to be a useful and simple tool for education about smoking in a psychiatric hospital setting.

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Keywords: Smoking; Smoking cessation; Cognitive behavior therapy; Motivational interviewing; Psychiatric hospital; Prohibitive smoking policy

1. Introduction

Smoking is the first avoidable cause of morbidity and mortality [1]. Most smoking cessation attempts are made without any help [2].

Despite the efficacy of nicotine substitutes [3], bupropion [4] and some behavioral approaches [5], these treatments are used only by a minority of smokers [6,7]. This is probably due to the

sufficient to induce behavioral changes [9]. Positive attitudes towards giving up nicotine addiction, however, are linked to a greater willingness to stop smoking [10].

In the transtheoretical model of behavioral change, a re-evaluation of the advantages and disadvantages of nicotine addiction and cessation enable smokers to evolve within the motivational process [11].

The notion of "self-efficacy" [12] corresponds to the trust

Page 1 of 4

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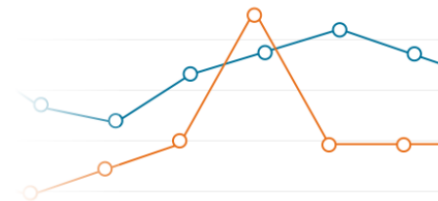
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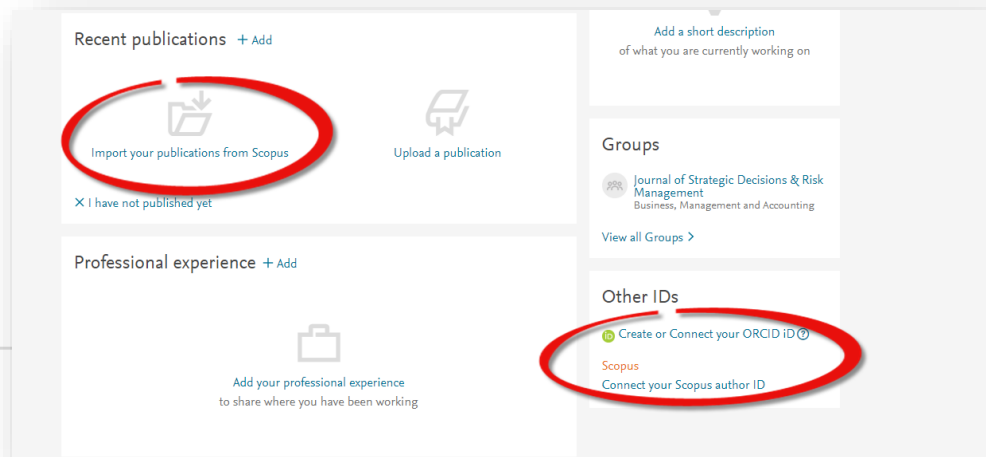
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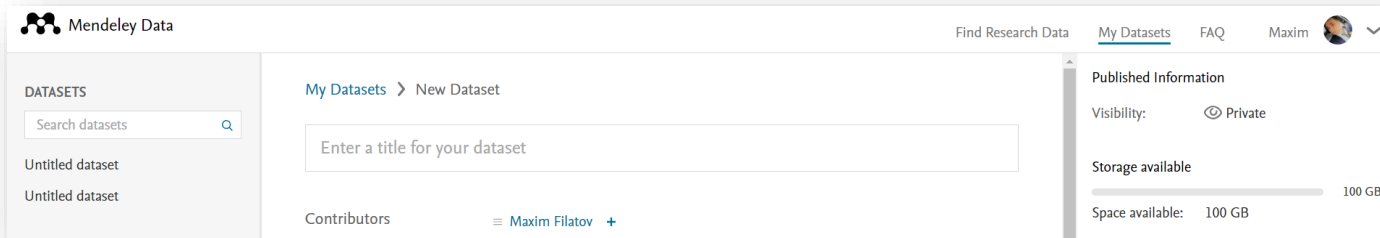


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