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Homepage

Divided into 3 parts:

- Search functionality
- Browse functionality
- Content offered according to your profile









Search

Most users access our content through the **search** functionality.

Therefore the search is the biggest and most prominent element on the page.

Advanced search and help functionality can be accessed by clicking the 'settings wheel'





Browse

You can also access our content through browsing. If you click on the topic of your choice you will end up on the search results page, showing all entries for this **scientific discipline**.

Sub disciplines can be chosen on the search results page as filter.

- » Physics
- » Psychology
- » Public Health
- » Social Sciences
- » Statistics

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	Browse 5,769,405 resources	
	Articles	4,316,203
	Chapters	1,158,467
	Reference Work Entries	266,078
	Protocols	28,657
l		



Browse by type of content (1)

Below the sector of industry navigation you find a list of **smallest content types**:

- (Journal) Articles
- (Book) Chapters
- References Work Entries
- Protocols

If you click into "Articles" you will end up on a **search result list** of all articles. You will find more **filter options** there.



Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.



New books and journals are available every day.

Browse by type of content (2)

On top of the content area you find an introduction text with bigger content units listed.

- Journals
- Books
- Series
- Protocols
- Reference works

If you click into "Journals" you will end up on a **search result list** of all journals. You will find more **filter options** there.



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methods of tappi	ing solar e	energy	New Search Q	¢.		
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Include preview-c	only 🔽	2,237 Result(s) for 'metho	ds of tapping solar energy'			
fine Your Search		Sort By Relevance	Date Published			
Content Type		Article				
Article	1,259	Electrochemical ways of tapping solar energy: an appraisal				
Chapter	925	In recent years, solar cell technol	logy has advanced significantly and is	nearing commercial viability. Practical		
Reference Work Entry	50	solar cells that are capable of cor	nverting the solar radiation directly int	o electricity are now		
Protocol	3	» Download PDF (1624 KB)	kamesh in <i>Dulletin or Materials Scien</i>	ce (1965)		
Discipline	see all	Article				
life Sciences	414	The notential for increasing rubber production by matching tapping				
Engineering	409	intensity to leaf area	index	ion by matching tapping		
Chemistry	363	lindenting to real area	niceA			
Environmental Sciences	332	management. Leaf area index (LA	can neep design appropriate species (Al) and its longevity are the most impo	prive provide the provide the prodest of the prodes		
Earth Sciences and Geography	268	Ciro Abbud Righi, Marcos Silveira	a Bernardes in Agroforestry Systems	(2008)		
Subdiscipline	see all	" DOWINDER FOR (OMPINE) " VIEW	Alton			
Ecology	230	Reference Work Entry				
Plant Sciences	163	Demise of the Dogma	atic Universe			
Engineering, general	121	Professor Ari Ben-Menahem in H	istorical Encyclopedia of Natural and	Mathematical Sciences (2009)		
Materials, general	119	» Download PDF (29870 KB)				
Energy Technology	108	Article				

Search Results

To the right you get your search results listed.

By default you get **all results** displayed, i.e. content you have licensed and **preview-only** content.



Include preview-only content Refine Your Search Content Type		2,102 Result(s) for 'methods of tapping solar energy'			
		Sort By Relevance Page 1 of 106			
		Your search also matched 135 preview-only results, e.g.			
Article	1,146	Energy distribution and biological productivity in Korean pine plantation <u>» Include preview-only content</u>			
Chapter	906				
Reference Work Entry	47	Article Electrochemical ways of tapping solar energy: an appraisal			
Protocol	3				
Discipline	see all	In recent years, solar cell technology has advanced significantly and is nearing commercial viability. Practical			
Life Sciences 411		solar cells that are capable of converting the solar radiation directly into electricity are now			
Engineering	408	A K Shukla, R Manoharan, K V Ramesh in Bulletin of Materials Science (1983)			
Chemistry 360 » Download PDF (1624 KB)		» Download PDF (1624 KB)			

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Then only search results you have full-text access to will be listed.



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enne rour search		Article				
Content Type		A East Madel for the l	Passanting of Speets	al Calan Innadia		
Article	1,259	A Fast Model for the I	ai Solar Irradia	nce		
Chapter	925	in the Near- and Mid-	-Ultraviolet			
Reference Work Entry 50		We present a model for the reconstruction of spectral solar irradiance between 200 and 400 nm. This model is				
Protocol	3	an extension of the total solar irradiance (TSI) model of Crouch et al. (Astrophys. J.				
		C. Bolduc, P. Charbonneau, V. Dumoulin, W. S. Bourqui, A. D. Crouch in <i>Solar Physics</i> (2012)				
Discipline	see all	» Look Inside » Get Acc	ess			
Life Sciences	414	Article				
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Chemistry	363	Emerging technologie	s to power next generation	on mobile		
Environmental Sciences 33		electronic devices using solar energy				
Environmental Sciences		Mobile electronic devices such as MP3, mobile phones, and wearable or implanted medical devices have already or will soon become a necessity in peoples' lives. However, the further development of these devices				
Earth Sciences and Geography	268	already or will soon become a neces	ssity in peoples' lives. However, the further	r development of these de	vices	

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Preview-only results are displayed with the color **yellow** in the background (1).

If you only want to see only results you have access to, uncheck the yellow box above the search filters (2).





Zekai Şen (2008)



_{Chapter}(1) Solar Energy

This paper is subdivided into three main paragraphs: basic principles of **solar** radiation, main applications, and a case ... first paragraph will introduce the basic principles of **solar energy**, highlighting the ad... Roberto Barile in *Sustainable Development and Environmental Management (2008)*

» Download PDF (1005 KB)

Chapter

Solar Energy

Enthusiasts for solar power need to be reminded that, through ... Sun is already our primary source of renewable energy. Or to put it another way solar photons convert naturally into chemical fuel and...1...Photo... Claudio Vita-Finzi in *The Sun (2008)*

» Download PDF (602 KB) » View Chapter

Journal

Applied Solar Energy

Volume 43 / 2007 - Volume 48 / 2012

Book

Solar Energy Fundamentals and Modeling Techniques

Atmosphere, Environment, Climate Change and Renewable Energy Zekai Şen (2008)

Type of content

The following types of content may be listed in a search result (1):

Bigger Units

- Series (of books)
- Book (of chapters or protocols)
- Journal (of articles)
- Reference Work
 (of reference work entries)

Smallest Units



- Protocol
- Article
- Reference Work Entry





Filter Options

To the left you will find **predefined filter options** that help you to optimize your search result.

The following filter options are available:

- Content type
- Discipline
- Sub discipline
- Published in
- Language



Product Pages



Blue bar

On top of every product page there is a blue bar which will **always be visible** even if you scroll down.

The functionality offered in this bar differs from page type to page type.



Product Pages



Look Inside

On every product page there is the option to browse the product with the so-called Look Inside function.

Recognized users can browse through the complete document.

Anonymous users will see the first 2 pages of the document.



(5)

) » Browse Volumes & Issues

Applied Solar Energy (3) ISSN: 0003-701X (Print) 1934-9424 (Online) (4)

Description

Applied Solar Energy, the official journal of the Uzbekistan Academy of Sciences, is dedicated to solar energy science and technology. Published in English since 1965, the journal has featured a number of seminal articles in the field. Today, the journal continues to publish articles on topics ranging from solar radiation, photovoltaics, and solar materials to direct conversion of solar energy into electrical energy. In addit ... show all



N. A. Matchanov, M. Farhan, J. D'Angelo, E. J. Timm, T. P. Hogan... (January 2012)

Search within this journal

Other actions

(2)

- » Register for TOC Alerting ☑
- » About This Journal ☑

Functionality Overview

- Browse Volumes & Issues (1)
- Search within this journal (2)
- Journal Title (3)
- Journal ISSN (4)
- Journal description (5)
- Volumes & Issues
 Navigation (6)
- List of latest articles (7)
- Journal Cover (8)
- Look Inside (9)





Search within this journal content

To find relevant journal articles you may enter a search term to start a search within the content of a journal.

The results will be displayed in a search result list. You leave the environment of the journal product page.



		N 4
Include preview-only content		106 Result(s) for 'cell'
Refine Your Search		You are now only searching within the Journal Applied Solar Energy
Content Type		STOP searching within this Journal 🗞
Article	106	
Discipline		
Engineering	84	Sort By Relevance Date Published Page 1 of 6
Subdiscipline		Article
Energy Technology	84	Impurity thermovoltaic effect in the grain boundaries of a polycrystalline silicon solar cell
Published In		The experimental data on the implementation of the impurity thermovoltaic effect arising at polycrystalline
Applied Solar Energy	106	silicon grain boundaries are presented. The temperature curve of the dark short-circuit current in a pol M. S. Saidov, B. M. Abdurakhmanov, L. O. Olimov in <i>Applied Solar Energy</i> (2007)
Language		» Download PDF (171 KB)
English	106	
		Article

Search result page of a keyword search within a journal

On top of the search result list you get the search term listed and the journal name.





Volumes & Issues Nav

On the journal homepage below the journal description you find a blue box that allows you to navigate to individual volumes and issues (1).

If you like to have an overview on all volumes and issues press the "All Volumes and Issues" button within that blue box (2).

You can also use the link "Browse Volumes & Issues" within the blue bar on top of the page (3).





All Volumes and Issues

You get links to the **most recent content**, including Online First articles, displayed on top of the page (1).

The content of **older volumes** is hidden behind the grey volume bars (2).

If you click into the volume bar the **content of this** volume is listed (3).





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On the bottom of the journal homepage you find some detail information to the journal:

To the left you get the **bibliographic information** offered (1).

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 » Download PDF (230 KB) (» View Article

Journal of Pest Science (3)(4)March 2012. Volume 85, Issue 1, pp 17-21. Feasibility of solar tents for inactivating (5) weedy plant propagative material James J. Stapleton (6) » Download PDF (230 KB)
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 » View Article
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Abstract

Solar tents, which are safe, inexpensive, and easy to construct, can be used to inactivate unwanted weed plant propagative materials, onsite. During two field trials in the San Joaquin Valley of California, from Sept 2 to 7, 2010, solar tents produced diurnal temperature maxima within closed sample bags of 63.5-76.7°C. The mean maximum temperatures within the sample bags were 32.9-42.1°C higher than those of ambient air, and temperatures ≥60°C were maintained for 3.2-6.0 h each afternoon during the field trials. Rhizome segments, excavated and excised from a local infestation of the important weed pest Sorghum halepense (johnsongrass), were used to evaluate effects of the treatment on weedy plant tissues with vegetative propagation capability. The rhizomes were completely destroyed following confinement within tents for 3 days. Construction suggestions for building onsite solar tents are presented, with emphasis on use of locally available materials. In sufficiently warm climatic areas and weather conditions, solar tents can provide a useful alternative for inactivating weed propagative materials. Potential uses include destruction of quarantined, propagative materials following regulatory roguing interventions in remote locations, or routine roguing of limited scale areas to remove invasive weeds.



Functionality Overview

- Download PDF (1)
- View (HTML) Article (2)
- Journal Title (3)
- Year of Publication (4)
- Article Title (5)
- Author (6)
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- View (HTML) Article (8)
- Abstract (9)
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- Within this Article Links (12)
- Citation Export (13)
- Related Articles (14)
- Supplementary Material (15)
- References (16)
- About this Article (17)

(10)(11)Pest Sci

Within this Article:

» Introduction (12)» Materials and methods » Results » Discussion » References

Other actions

» Register for TOC Alerting ☑

(13)» Export citations

» About This Journal 12





Difference between Download PDF and Look Inside

The "**Download PDF**" functionality is offered most prominent within the blue bar on the top left of the page.

The same functionality is repeated by the link below the title.

The PDF file can be **saved**, **printed**, **marked**.

The "**Look Inside**" link offers a **PDF preview** without further functionality.





View Article

This link offers an HTML page of the article.

The same functionality is repeated by the link below the title.

seed inactivation is one of the most beneficial results obtained from heating soil. A factor limiting effectiveness of soil heating in open fields is "top-down" efficacy resulting from the solar energy source overhead. This gives maximal pesticidal efficacy in uppermost soil layers, which decreases with increasing soil depth (Rubin and Benjamin 1984). A howercound solar tenting as opposed to open-field treatment was developed as a method for eradicating soil press in smaller volumes of soil such as used in horticultural



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Journal of Pest Science March 2012, Volume 85, Issue 1, pp 17-21

(2)

Feasibility of solar tents for inactivating weedy plant propagative material

James J. Stapleton



Abstract

Solar tents, which are safe, inexpensive, and easy to construct, can be used to inactivate unwanted weed plant propagative materials, onsite. During two field trials in the San Joaquin Valley of California, from Sept 2 to 7, 2010, solar tents produced diurnal temperature maxima within closed sample bags of 63.5–76.7°C. The mean maximum temperatures within the sample bags were 32.9–42.1°C higher than those of ambient air, and temperatures ≥60°C were maintained for 3.2–6.0 h each afternoon during the field trials. Rhizome segments, excavated and excised from a local infestation of the important weed pest *Sorghum halepense* (johnsongrass), were used to evaluate effects of the treatment on weedy plant tissues with vegetative propagation capability. The rhizomes were completely destroyed following confinement within tents for 3 days. Construction suggestions for building onsite solar tents are presented, with emphasis on use of locally available materials. In sufficiently warm climatic areas and weather conditions, solar tents can provide a useful alternative for inactivating weed propagative materials. Potential uses include destruction of quarantined, propagative materials following regulatory roguing interventions in remote locations, or routine roguing of limited scale areas to remove invasive weeds.

Communicated by M. Traugott.



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» Introduction
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 » Results
 » Discussion
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Title & Author information

The new design works with a big and prominent **title headline** (1).

In smaller fonts above you will find the related **journal information** (2).

Below the title the **author information** is located. All authors are linked to a search result page of all publications of this author (3).



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Feasibility of solar tents for inactivating weedy plant propagative material

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Abstract

(1)

Solar tents, which are safe, inexpensive, and easy to construct, can be used to inactivate unwanted weed plant propagative materials, onsite. During two field trials in the San Joaquin Valley of California, from Sept 2 to 7, 2010, solar tents produced diurnal temperature maxima within closed sample bags of 63.5–76.7°C. The mean maximum temperatures within the sample bags were 32.9–42.1°C higher than those of ambient air, and temperatures ≥60°C were maintained for 3.2–6.0 h each afternoon during the field trials. Rhizome segments, excavated and excised from a local infestation of the important weed pest Sorghum halepense (johnsongrass), were used to evaluate effects of the treatment on weedy plant tissues with vegetative propagation capability. The rhizomes were completely destroyed following confinement within tents for 3 days. Construction suggestions for building onsite solar tents are presented, with emphasis on use of locally available materials. In sufficiently warm climatic areas and weather conditions, solar tents can provide a useful alternative for inactivating weed propagative materials. Potential uses include destruction of quarantined, propagative materials following regulatory roguing interventions in remote locations, or routine roguing of limited scale areas to remove invasive weeds.

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Abstract and "Within this Article" links

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Below the cover image you will find **links** offered that work as an **anchor** navigating to the respective information within the HTML preview of the article (2).





Export Citation

Below the journal cover there is a link offered that allows to export citations.

Citations can be exported in the following formats:

- ProCite (RIS)
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		5. Effectiveness of eriophyid mites for biological control of weedy plants and challenges for future research	2009
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(-)	•	References (15)	
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1. Bainbridge DA (1990) Soil solarization for restorationists. Restor Manage Notes 8:96–97	This is
 Ben-Yephet Y, Stapleton JJ, Wakeman RJ, DeVay JE (1987) Comparative effects of soil solarization with single and double layers of polyethyle film on survival of Fusarium oxysporum f. sp. vasinfectum. Phytoparasitica 15:181–185 » CrossRef 	autho
 California Department of Food and Agriculture (CDFA) (2004) Approved treatment and handling procedures to ensure against nematode pest infestation of nursery stock. Nursery Inspection Procedures Manual, NIPM Item 7. Plant Health and Pest Prevention Services, Pest Exclusion Branch, Sacramento. » http://www.cdfa.ca.gov/plant/pe/Nursery/pdfs/NIPM_7.pdf Accessed 08 Dec 2011 	article
 California Department of Water Resources (2011) California Irrigation Management Information System (CIMIS) Website. http://www.cimis.water.ca.gov/cimis/data.jsp Accessed 15 Nov 2011 	
5. Dahlquist RM, Prather TS, Stapleton JJ (2007) Time and temperature requirements for weed seed thermal death. Weed Sci 55:619-625 » Cross	Ref Most (
 Economou G, Mavrogiannopoulos G, Paspatis EA (1998) Weed seed responsiveness to thermal degree hours under laboratory conditions and soil solarization in greenhouse. In: Stapleton JJ, DeVay JE, Elmore CL (eds) Soil solarization and integrated management of soilborne pests. Food and Agriculture Organization, Rome, pp 246–263 	linked
7. Egley GH (1990) High temperature effects on germination and survival of weed seeds in soil. Weed Sci 38:429-435	"Cross
 Marushia RG, Allen EB (2011) Control of exotic annual grasses to restore native forbs in abandoned agricultural land. Restor Ecol 19:45–54 » CrossRef 	

9. Moyes AB, Witter MS, Gamon JA (2005) Restoration of native perennials in a California annual grassland after prescribed spring burning and solarization. Restor Ecol 13:659–666 » CrossRef

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Title Feasibility of solar tents for inactivating weedy plant propagative material	Topics » Forestry » Entomology (3)	$\frac{\text{Authors}}{\text{James J. Stapleton}} \boxtimes^{(1)} (4)$
Iournal 9 Journal of Pest Science 9 Volume 85, Issue 1 , pp 17-21	» Flant Sciences (•) » Ecology » Plant Pathology » Agriculture	Author Affiliations 1. Statewide Integrated Pest Management Program, University of California, Kearney Agricultural Center, Parlier, CA, 93648, USA
Cover Date 2012-03-01	Keywords Appropriate technology Ecological restoration	
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These links lead to a search result list to that topic whereas the keywords are not yet linked (3)

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Multiphase Flow	Dynamics 4		Nikolay Ivanov Kolev	
multipliase 110w	Dynamics 4	(4)	Multiphase	
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Authors: Nikolay Ivanov Kolev			4 DIESULFACE, DIESULFACE, PROPERTION AND RELEASE.	
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For the search result you will leave this page and end up on a search result page.



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2012		and the second second
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Authors: Nikolay Ivanov Kolev		4 GASABOLANCE, DIA SAID RELEASE. DIESEL PUEL PROFESTION SAID RELEASE.
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Browse within a book

To **browse** through the chapters of a book you get a "**table of contents"** on the book chapters offered .

A list item to chapters supplies the following information:

- Type of content (1)
- Title of the chapter is linked to the chapter (2)
- Author information (3)
- Download PDF link to download the chapter if you have access (4)





No access to book

If you have no access to the book the table of content is displayed in a different design:

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(1)

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Back Matter		
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Pook Title	Topics	Authors
Multiphase Flow Dynamics 4	» Engineering Fluid Dynamics	Nikolay Ivanov Kolev 🖂 (1)
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These links will link to a search result list of related subjects (3).

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Book Chapter

(1)

(3)

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New Horizons of Parallel and Distributed Computing 2005, pp 3-19

Flexible Message Passing Interface for A Heterogenous Computing Environment

Yuichi Tsujita, Toshiyuki Imamura, Nobuhiro Yamagishi, Hiroshi Takemiya

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Abstract

A flexible MPI library, Stampi, has been developed to enable MPI operations on a heterogeneous computing environment. APIs are based on the MPI-1 and the MPI-2 standards. Users can call these functions without awareness of underlying communication mechanism. In message transfer, a vendor-supplied MPI library and TCP/IP socket are used selectively among MPI processes. Introducing its own router process mechanism hides a complex network configuration in intermachine data transfer. In addition, the MPI-2 extensions, functionalities of dynamic process creation and MPI-I/O, are also implemented. MPI-I/O on the Stampi library realizes both local and remote I/O operations due to the request of user applications. We have evaluated performance of primitive MPI functions in Stampi and sufficient performance has been achieved and effectiveness of our flexible implementation has been confirmed.



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Recent Developments in Vector Optimization Vector Optimization Volume 1, 2012, pp 1-27

Vector Optimization Problems and Their Solution Concepts

Gabriele Eichfelder, Johannes Jahn

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Abstract

In vector optimization one investigates optimal elements of a set in a pre-ordered space. The problem of determining these optimal elements, if they exist at all, is called a vector optimization problem. Problems of this type can be found not only in mathematics but also in engineering and economics. There, these problems are also called multiobjective (or multi criteria or Pareto) optimization problems or one speaks of multi criteria decision making. Vector optimization problems areise, for example, in functional analysis (the Hahn–Banach theorem, the lemma of Bishop–Phelps, Ekeland's variational principle), multiobjective programming, multi-criteria decision making, statistics (Bayes solutions, theory of tests, minimal covariance matrices), approximation theory (location theory, simultaneous approximation, solution of boundary value problems) and cooperative game theory (cooperative *n* player differential games and, as a special case, optimal control problems). In the last decades vector optimization has important applications to variational inequalities and optimization problems with multivalued data.



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The diamine agmatine (AGM), exhibiting two positive charges at physiological pH, is transported into rat brain mitochondria (RBM) by an electrophoretic mechanism, requiring high membrane potential values and exhibiting a marked non-ohmic force-flux relationship. The mechanism of this transport apparently resembles that observed in rat liver mitochondria (RLM), but there are several characteristics that strongly suggest the presence of a different transporter of agmatine in RBM. In this type of mitochondria, the extent of initial binding and total accumulation is higher and lower, respectively, than that in liver; saturation kinetics and the flux-voltage relationship also exhibit different trends, whereas idazoxan and putrescine, ineffective in RLM, act as inhibitors The characteristics of agmatine uptake in RBM lead to the conclusion that its transporter is a channel with two asymmetric energy barriers. showing some characteristics similar to those of the imidazoline receptor I2 and the sharing with the polyamine transporter.



Agmatine transport in brain mitochondria: a different mechanism from that in liver mitochondria

V. Battaglia, S. Grancara... Show all

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Abstract

The diamine agmatine (AGM), exhibiting two positive charges at physiological pH, is transported into rat brain mitochondria (RBM) by an electrophoretic mechanism, requiring high membrane potential values and exhibiting a marked non-ohmic force-flux relationship. The mechanism of this transport apparently resembles that observed in rat liver mitochondria (RLM), but there are several characteristics that strongly suggest the presence of a different transporter of agmatine in RBM. In this type of mitochondria, the extent of initial binding and total accumulation is higher and lower, respectively, than that in liver; saturation kinetics and the flux-voltage relationship also exhibit different trends, whereas idazoxan and putrescine, ineffective in RLM, act as inhibitors. The characteristics of agmatine uptake in RBM lead to the conclusion that its transporter is a channel with two asymmetric energy barriers, showing some characteristics similar to those of the imidazoline receptor I2 and the sharing with the polyamine transporter.

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