

WorldWideScience.org:

What Makes it Unique?



**WORLDWIDE
SCIENCEAlliance**

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U.S. Department of Energy

WorldWideScience Alliance Operating Agent

What is WorldWideScience.org?



- Over 100 national and international scientific databases and portals
- More than 70 countries are represented



Benefits to the Searcher...

- Searches the “deep web,” which may not be searchable by major search engines
- Performs a real-time, simultaneous search of participating databases
- Overcomes barrier of needing to know about all resources
- Little or no burden on database owners
- Returns a consolidated, relevance-ranked results list
- Links to original records at source databases, including full text if available
- Integrates symbiotic technologies to further accelerate scientific discovery

A variety of databases and formats...

[Digital.CSIC \(Spain\)](#)

[Digital Repository Service at National Institute of Oceanography \(India\)](#)

[Directory of Open Access Journals \(Sweden\)](#)

[DNA Data Bank of Japan](#)

[DOD Public Access Search](#)

[DOE OSTI.GOV](#)

[DOE Public Access Gateway for Energy & Science \(PAGES\)](#)

[DRYAD](#)

[EKT National Archive of PhD Theses \(HEDI\) \(Greece\)](#)

[Energy Technology Data Exchange \(ETDEWEB\)](#)

[ERIC Institute of Education Sciences](#)

[Europe PubMed Central](#)

[European Nucleotide Archive \(ENA\)](#)

[European Union Open Data Portal](#)

[Federal Science Library](#)

[German National Library of Science and Technology \(TIB\)](#)

[Grey Guide Repository](#)

- [National Science Foundation Public](#)
- [National Science Foundation Multimed](#)
- [National Research Council Canada](#)
- [Norwegian Open Research Archive](#)
- [OpenAIRE](#)
- [OpenGrey \(European Union\)](#)
- [P3 \(Projects, People, Publications\)](#)
- [PLEIADI \(Italy\)](#)
- [PubAg](#)
- [PubMed Central](#)
- [Research Data Australia](#)
- [Russian union catalog of scientific li](#)
- [ScienceCinema \(United States\)](#)
- [Science Central](#)
- [Science.gov \(United States\)](#)
- [Select to expand list of databases](#)
- [Scientific Electronic Library Online](#)

- Over 60 English language databases from around the world
- 20 Multilingual (non-English) databases
- Multimedia sources – audio and visual content
- 15 Research Data Sources and over a dozen Public Access resources
- ***And, most recently, scientific SOFTWARE and CODE***

A Measure of WorldWideScience.org's Uniqueness

- 33 sample queries launched in Google, Google Scholar, and WorldWideScience.org
- Similar quantities in the numbers of results, but *very little overlap*
- Among the “top 50” results from each search engine, only ~10% overlap – or **90% uniqueness** – in WorldWideScience.org results



Google and Google Scholar Results for: Clean Coal Combustion

Google clean coal combustion

All News Images Shopping Videos More Settings

About 8,920,000 results (0.46 seconds)

Burning coal without adding to global carbon dioxide levels is a major technological challenge which is being addressed. The most promising '**clean coal**' technology involves using the **coal** to make hydrogen from water, then burying the resultant carbon dioxide by-product and **burning** the hydrogen.

Clean Coal Technologies | Carbon Capture and Storage | CCS ...
www.world-nuclear.org/information-library/energy-and-.../clean-coal-technologies.aspx

People also ask

Is clean coal clean?

What makes clean coal clean?

Results geared towards layperson

Clean Coal Technologies | Carbon Capture and Storage | CCS ...
www.world-nuclear.org/information-library/energy-.../clean-coal-technologies.aspx

Burning coal without adding to global carbon dioxide levels is a major technological challenge which is being addressed. The most promising 'clean coal' technology involves using the coal to make hydrogen from water, then burying the resultant carbon dioxide by-product and burning the hydrogen. Managing wastes from coal · Producing oxygen for ... · Other demonstration projects

Clean coal technology - Wikipedia
https://en.wikipedia.org/wiki/Clean_coal_technology

This causes a reduced burning efficiency and an increased emissions output. Reduction of moisture from the coal prior to combustion can reduce emissions by up to 50 percent. The UK government is working towards a clean energy future and supports clean coal projects across the country. Technology · Clean coal and the ... · Clean coal and health · Notes

What is clean coal technology? | HowStuffWorks
<https://science.howstuffworks.com> · Science · Environmental Science · Green Science

Google Scholar clean coal combustion

Articles About 693,000 results (0.21 sec)

Any time
Since 2018
Since 2017
Since 2014
Custom range...

Sort by relevance
Sort by date

☒ include patents
☒ include citations

Create alert

EU clean coal technology—co-combustion of coal and biomass
KRG Hein, JM Bemtgen - Fuel processing technology, 1998 - Elsevier
Apart from a more economical use of fossil fuels, the application of regenerative energy sources should be advanced in order to reduce CO₂ emissions. One of the alternatives considered to decrease the net emissions of CO₂ are the cultivation and combustion of ...
☆ 99 Cited by 268 Related articles All 3 versions

[CITATION] Fundamentals of coal combustion for clean and efficient use
LD Smoot - Coal science and technology, 1993 - ci.nii.ac.jp
... 検索,すべて,本文あり,すべて,本文あり,タイトル,著者名,著者ID,著者所属,刊行物名,ISSN,巻号ページ,出版者,参考文献,出版年,年から年まで,検索,閉じる,検索,検索,利用者のみなさまにご不便をおかけしておりますこととお詫び申し上げます。NII-ELS ...
☆ 99 Cited by 201 Related articles All 2 versions

The future challenges for "clean coal technologies": joining efficiency increase and pollutant emission control
A Franco, AR Diaz - Energy, 2009 - Elsevier
... Keywords. Coal. Energy production. Pollutant control. Advanced technologies. IGCC. Abbreviations. ASU air separation unit. CC carbon content. CE combustion efficiency. CR conversion rate. CCT clean coal technologies. CFBC circulating fluidized bed combustion ...
☆ 99 Cited by 251 Related articles All 15 versions

[BOOK] Combustion and gasification of coal
A Williams, M Pourkashanian, JM Jones, N Skorpiska - 2000 - osti.gov
... Industrial coal combustion applications are then outlined, together with other combustion applications, including co-firing, coal-water slurries and briquettes. Finally, gasification of coal, a possible major clean coal technology of the future is discussed ...
☆ 99 Cited by 103 Related articles

Related searches

clean coal combustion fluidized bed coal combustion technology
clean coal combustion circulating fluidized bed coal combustion clean and efficient use

Scientific results, but many are behind publisher paywalls

Thermal ...
C Huan - Agricultural Research in the Arid Areas, 2005
☆ 99 Cited by 47 Related articles

WorldWideScience.org Results for: Clean Coal Combustion


Search: clean coal combustion


[Create new alert from this search](#)


ALL


Papers (2299) Multimedia (13) Data (30) Public Access (269) ALL (2342)


Results 1 - 10 of 2342 Sort by: Rank Limit to: All Collections (2342) «« 1 2 3 4 5 »»


☐ [Clean coal combustion boiler](#) 
★★★★★
[German National Library of Science and Technology \(TIB\)](#)
XIA DESEN; LI XIAOGUANG; LIU HUQUN
2016-01-01 European Patent Office


☐ [Coal clean-combustion co-combustion agent and application method thereof](#) 
★★★★★
[German National Library of Science and Technology \(TIB\)](#)
WANG JIANBIN; CAI DELIANG; HUANG LIANGGU
2016-01-01 European Patent Office


☐ [Clean Coal Combustion Technology Transfer](#) 
★★★★★
[British Library Electronic Table of Contents \(United Kingdom\)](#)
Smiarowski, A. et al.
PROCEEDINGS

☐ [Use of clean coal combustion by-products in highway repairs](#) 
★★★★★
[British Library Electronic Table of Contents \(United Kingdom\)](#)
TTERWORTH-HEINEMANN Part: Part 8; (pages 749-753)

☐ [Clean Coal Combustion](#) 
★★★★★
[British Library Electronic Table of Contents \(United Kingdom\)](#)
Barz, M. et al.
VDI-Bericht. VOL 1750, ; 2003, 469-476 -- VDI; 1999 (pages 469-476) -- 2003

☐ [Effect of Clean Coal Combustion Products in Reducing Soluble Phosphorus in Soil I. Adsorption Study](#) 
★★★★★
[Science.gov \(United States\)](#)
Seshadri, Balaji; Bolan, Nanthi S.; Kunhikrishnan, Anitha
2013-04-01 NASA Astrophysics Data System (ADS)
DOI: 10.1007/s11270-013-1524-2 Volume: 224 Pages: 1524
Not Available

☐ [Clean coal combustion with in situ impregnated sol-gel sorbent](#) 
★★★★★
[OpenAIRE](#)
Duisterwinkel, A.E.
2018-07-28

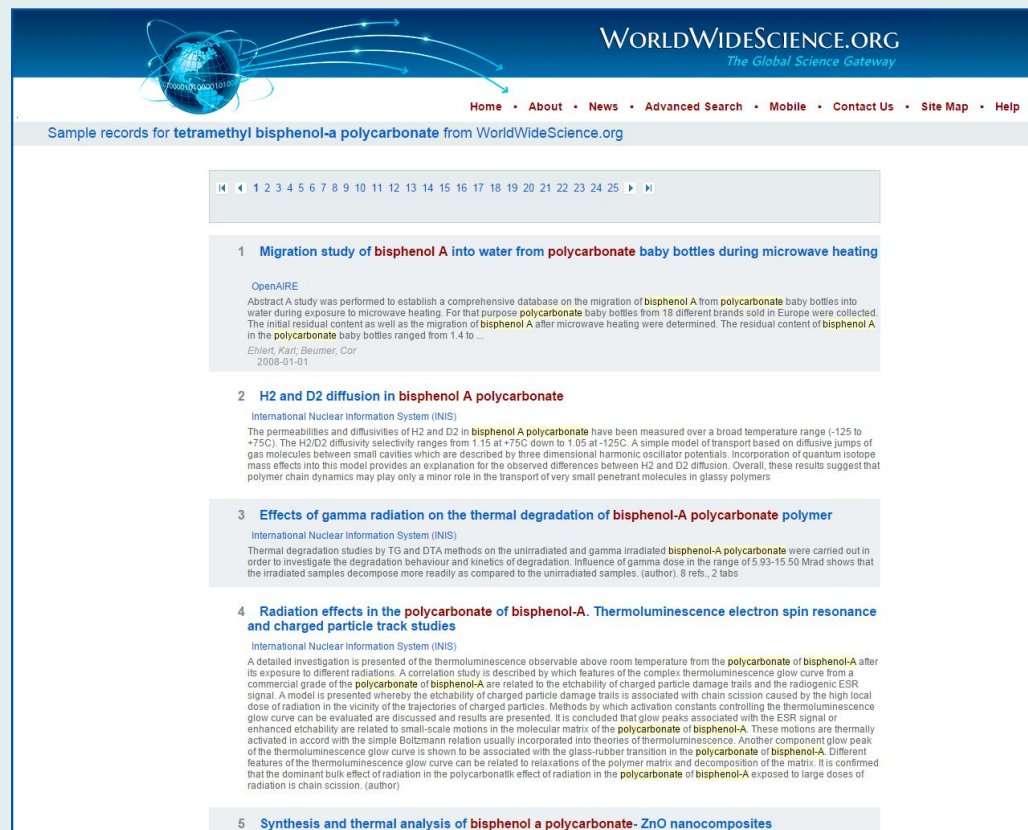
☐ [Effect of Clean Coal Combustion Products in Reducing Soluble Phosphorus in Soil I. Adsorption Study](#) 
★★★★★
[PubAg](#)
Seshadri, Balaji; Bolan, Nanthi S.; Kunhikrishnan, Anitha
2013-01-01 Water, air, and soil pollution
Volume: 224 Issue: 4 Pages: 1524-1524
Keywords: acid soils, adsorption, alkaline soils, application rate, calcium, **coal combustion**, fluidized beds, fl
... The study examined the effectiveness of various **coal combustion** products (CCPs) [fly ash (FA), fluidized
using batch sorption studies. The results indicated that P adsorption increased with increasing application rate]

Scientific results, many are open/public access.
Includes data, software, multimedia formats.

WorldWideScience.org Topic Pages

Utilizing the power of Google, Bing, Yahoo, and other search engines:

- Millions of Topic Pages created
- Exposes distributed WorldWideScience.org content to commercial search engines via site map protocols



The screenshot displays the WorldWideScience.org website interface. At the top, there is a navigation bar with the site's logo and the tagline "The Global Science Gateway". Below the navigation bar, a search bar contains the text "Sample records for tetramethyl bisphenol-a polycarbonate from WorldWideScience.org". A list of five topic pages is shown, each with a title, a brief description, and a date. The first page is titled "Migration study of bisphenol A into water from polycarbonate baby bottles during microwave heating" and is dated 2008-01-01. The second page is titled "H2 and D2 diffusion in bisphenol A polycarbonate" and is dated 2008-01-01. The third page is titled "Effects of gamma radiation on the thermal degradation of bisphenol-A polycarbonate polymer" and is dated 2008-01-01. The fourth page is titled "Radiation effects in the polycarbonate of bisphenol-A. Thermoluminescence electron spin resonance and charged particle track studies" and is dated 2008-01-01. The fifth page is titled "Synthesis and thermal analysis of bisphenol a polycarbonate- ZnO nanocomposites" and is dated 2008-01-01.

WORLDWIDESCIENCE.ORG
The Global Science Gateway

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Sample records for tetramethyl bisphenol-a polycarbonate from WorldWideScience.org

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

- 1 Migration study of bisphenol A into water from polycarbonate baby bottles during microwave heating**
OpenAIRE
Abstract A study was performed to establish a comprehensive database on the migration of bisphenol A from polycarbonate baby bottles into water during exposure to microwave heating. For that purpose polycarbonate baby bottles from 18 different brands sold in Europe were collected. The initial residual content as well as the migration of bisphenol A after microwave heating were determined. The residual content of bisphenol A in the polycarbonate baby bottles ranged from 1.4 to ...
Ehler, Karl; Beumer, Cor
2008-01-01
- 2 H2 and D2 diffusion in bisphenol A polycarbonate**
International Nuclear Information System (INIS)
The permeabilities and diffusivities of H2 and D2 in bisphenol A polycarbonate have been measured over a broad temperature range (-125 to +75°C). The H2/D2 diffusivity selectivity ranges from 1.15 at +75°C down to 1.05 at -125°C. A simple model of transport based on diffusive jumps of gas molecules between small cavities which are described by three dimensional harmonic oscillator potentials. Incorporation of quantum isotope mass effects into this model provides an explanation for the observed differences between H2 and D2 diffusion. Overall, these results suggest that polymer chain dynamics may play only a minor role in the transport of very small penetrant molecules in glassy polymers
- 3 Effects of gamma radiation on the thermal degradation of bisphenol-A polycarbonate polymer**
International Nuclear Information System (INIS)
Thermal degradation studies by TG and DTA methods on the unirradiated and gamma irradiated bisphenol-A polycarbonate were carried out in order to investigate the degradation behaviour and kinetics of degradation. Influence of gamma dose in the range of 5.93-15.50 Mrad shows that the irradiated samples decompose more readily as compared to the unirradiated samples. (author). 8 refs., 2 tabs
- 4 Radiation effects in the polycarbonate of bisphenol-A. Thermoluminescence electron spin resonance and charged particle track studies**
International Nuclear Information System (INIS)
A detailed investigation is presented of the thermoluminescence observable above room temperature from the polycarbonate of bisphenol-A after its exposure to different radiations. A correlation study is described by which features of the complex thermoluminescence glow curve from a commercial grade of the polycarbonate of bisphenol-A are related to the etchability of charged particle damage trails and the radiogenic ESR signal. A model is presented whereby the etchability of charged particle damage trails is associated with chain scission caused by the high local dose of radiation in the vicinity of the trajectories of charged particles. Methods by which activation constants controlling the thermoluminescence glow curve can be evaluated are discussed and results are presented. It is concluded that glow peaks associated with the ESR signal or enhanced etchability are related to small-scale motions in the molecular matrix of the polycarbonate of bisphenol-A. These motions are thermally activated in accord with the simple Boltzmann relation usually incorporated into theories of thermoluminescence. Another component glow peak of the thermoluminescence glow curve is shown to be associated with the glass-rubber transition in the polycarbonate of bisphenol-A. Different features of the thermoluminescence glow curve can be related to relaxations of the polymer matrix and decomposition of the matrix. It is confirmed that the dominant bulk effect of radiation in the polycarbonate effect of radiation in the polycarbonate of bisphenol-A exposed to large doses of radiation is chain scission. (author)
- 5 Synthesis and thermal analysis of bisphenol a polycarbonate- ZnO nanocomposites**

Multilingual Translations: Query is translated into languages of all databases, searches are completed, and results are combined into a single, relevance-ranked results list. User translates results into their preferred language.



WORLDWIDESCIENCE.ORG
The Global Science Gateway

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Search: Full Text: Elektrofahrzeuge [Create new alert from this search](#)

New Search My Selections (0) Alerts Source Status

2,890 top results from at least 74,064 found.
99 of 99 sources complete

Papers (2733) Multimedia (112) Data (45)

Includes journal articles, technical reports, conference papers, and other textual information.

Ergebnisse übersetzen

61 – 75 of 2,733 Sort By: Rank Limit to: All Sources 3 4 5 6 7 Refine Search

61 Elektroautos : wie man den "Schutz" durchbrechen
Original Title: 电动汽车：如何突破地方“保护”
★★★★★
Institute of Scientific and Technical Information of China (Chinese)
Wie die 2003 SARS als Familienautos beschleunigt, möglicherweise Smog "Belagerung" Elektroautos in die Häuser der einfachen Leute dazu zwingen. Lösen der 30 % Marke im Bereich Gemeinschaft Infrastruktur Förderung Herausforderung, der Wendepunkt ist der Elektrofahrzeug-Markt. Am 4. März 2014, nach der nächtlichen Nebel. ...
Original Summary: 正如2003年非典加速轿车进入家庭一样，雾霾“围城”或许可以倒逼电动汽车步入寻常百姓家。解决好30%外地品牌、社区基础设施等推广难题，将是电动汽车市场化的引爆点。2014年3月4日，在持续多日雾霾后， ...
王伟
《能源评论》

62 Elektrofahrzeuge für den städtischen Güterverkehr
Original Title: Les véhicules électriques pour le transport de fret urbain
★★★★★
HAL Archives (French)
MORGANTI, Eléonora; Dablan, Laetitia
TEC Transport environnement circulation
2013-01-01

63 SCHALTEINRICHTUNGEN für Elektrofahrzeuge
Original Title: CONTROL APPARATUS FOR ELECTRIC VEHICLES
★★★★★
Institute of Scientific and Technical Information of China (English)
Ein Motorsteuergerät steuert die Elektrische Eingangsleistung einer MG-Einheit und damit Variationen o unterdrücken...
Original Summary: A motor control unit controls the input electric power of a MG unit to thereby suppress variations o...
DENSO CORP;
US20080034916
2008-11-13

Topics Visual

All Results (2733)

▼ Topics

- Full Text Available (382)
- Hybrid Electric Vehicles (311)
- Power System (159)
- Energy Storage (119)
- Renewable Energy (111)
- [More...](#)

▼ Country

- United States (382)
- Japan (263)
- France (196)
- Germany (196)
- China (157)
- [More...](#)

▼ Authors

- Not Available (22)
- THIEL CHRISTIAN (14)
- Braunschweig Symposium Hybrid and Electric Vehicles (12)
- FULLI Gianluca (12)
- K. T. Chau (11)
- [More...](#)

▼ Publications

- TIBscholar (93)

WIKIPEDIA

Electric vehicle

An electric vehicle (EV), also referred to as an electric drive vehicle, uses one or more electric motors or traction motors for propulsion. An electric vehicle may be powered through a collector system by electricity from off-vehicle sources, or may be ...

EUREKA!

Electric vehicles and smart grids: First EU-US Interoperability Centre opens for business ...

... Public Release: 19-Jul-2013 **Electric vehicles and smart grids: First EU-US Interoperability Centre opens for business ...**

... between smart grids and electric vehicles will allow for deeper penetration ... **Electric vehicles and smart grids: First EU-US Interoperability Centre opens for business ...**

javascript:void(0) für Elektrofahrzeuge

Integration of Scientific Research Data

The screenshot shows the WorldWideScience.ORG website with a search for 'ocean circulation'. The search results are displayed in a list format, showing the top 15 results. The first result is 'Ocean Colour Ocean Climate Ocean Circulation' by Robin D. Pingree, dated 2014-01-01. The second result is 'Ocean Colour Ocean Circulation Ocean Climate' by Robin D. Pingree, dated 2014-01-01. The third result is 'Experiments With Buoyancy-driven Ocean Circulation' by Rhines, P., Holland, W., Chow, J., dated 1985-01-01. The fourth result is 'Compilation of ocean circulation and other data from ADCP current meters, CTD casts, tidal gauges, and other instruments from a World-Wide distribution by Oregon State University (OSU) and other institutions as part of World Ocean Circulation Experiment (WOCE) and other projects from 24 November 1985 to 30 December 2000 (NODC Accession 0000649)' by ICSU World Data System, dated 2014-01-01. The fifth result is 'Data from Ocean circulation model predicts high genetic structure in a long-lived pelagic developer'.

Results containing research and numeric datasets

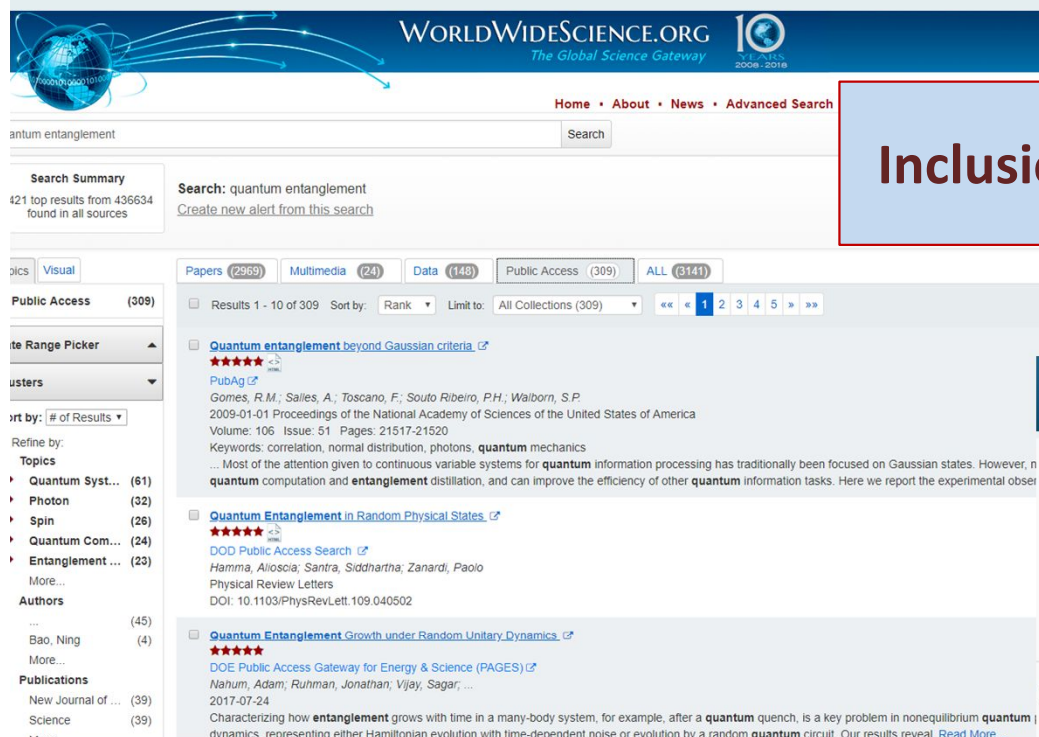
The screenshot shows the PANGAEA website with the data description for 'WOCE Upper Ocean Thermal, UOT (2005)'. The data description includes the citation, related projects, further details, coverage, event(s), comment, and parameter(s). The parameter(s) table lists the following data points:

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	DATE/TIME	Date/Time				
2	LATITUDE	Latitude				
3	LONGITUDE	Longitude				
4	DEPTH, water	Depth water	m			
5	Temperature, water	Temp	°C		CTD	
6	Salinity	Sal			CTD	
7	Sample code/label	Sample code/label				Station number, DAC-ID

The license is Creative Commons Attribution 3.0 Unported, and the size is 17121 data points. The data is available for download as tab-delimited text.

Research Data, via the landing page, is accessible. Data can be viewed or downloaded.

WorldWideScience Supports Open Science



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The Global Science Gateway
10 YEARS 2008-2018

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Search: quantum entanglement
Create new alert from this search

421 top results from 436634 found in all sources

Public Access (309)

Quantum entanglement beyond Gaussian criteria

Gomes, R.M.; Salles, A.; Toscano, F.; Souto Ribeiro, P.H.; Walborn, S.P.
2009-01-01 Proceedings of the National Academy of Sciences of the United States of America
Volume: 106 Issue: 51 Pages: 21517-21520
Keywords: correlation, normal distribution, photons, quantum mechanics
... Most of the attention given to continuous variable systems for quantum information processing has traditionally been focused on Gaussian states. However, n quantum computation and entanglement distillation, and can improve the efficiency of other quantum information tasks. Here we report the experimental obser

Quantum Entanglement in Random Physical States

Hamma, Alioscia; Santra, Siddhartha; Zanardi, Paolo
Physical Review Letters
DOI: 10.1103/PhysRevLett.109.040502

Quantum Entanglement Growth under Random Unitary Dynamics

DOE Public Access Gateway for Energy & Science (PAGES)

Nahum, Adam; Ruhman, Jonathan; Vijay, Sagar, ...
2017-07-24
Characterizing how entanglement grows with time in a many-body system, for example, after a quantum quench, is a key problem in nonequilibrium quantum dynamics, representing either Hamiltonian evolution with time-dependent noise or evolution by a random quantum circuit. Our results reveal Read More

Inclusion of Public Access Resources

DOE CODE

U.S. Department of Energy
Office of Scientific and Technical Information

Search DOE CODE for submitted software entries

1. Performance Estimator of Codes on Surfaces (PECOS) v. 0.1.0

Ryan-Anderson, Claran Release Date: 2018-09-27

PECOS is Python package that provides a framework for studying, developing, and evaluating quantum error-correcting codes. The primary focus is the simulation of lattice-surgery operations on topological stabilizer codes.

DOI: 10.11578/dc.20181011.4 | Repository Link

2. Tensor Network Quantum Virtual Machine (TNQVM)

McCaskey, Alexander Release Date: 2017-01-20

There is a lack of state-of-the-art quantum computing simulation software that scales on heterogeneous systems like Titan. Tensor Network Quantum Virtual Machine (TNQVM) provides a quantum simulator that leverages a distributed network of GPUs to simulate quantum circuits in a manner that leverages recent results from tensor network theory.

DOI: 10.11578/dc.20171025.1899 | Repository Link

3. Quantum Virtual Machine (QVM)

Release Date: 2017-01-20

State-of-the-art HPC simulation tools for simulating general quantum computing. Furthermore, there are tools that integrate current quantum computers into existing classical HPC workflows. This Quantum Virtual Machine (QVM), solves this problem by providing an extensible framework for pluggable quantum processing units (QPUs). It enables the execution of low level quantum assembly codes and the orchestration of such executions.

DOI: 10.11578/dc.20171025.1898 | Repository Link

4. TASQC Quantum Key Transfer Program

Inclusion of Scientific Software and Code

User Friendly Features:

- Basic and Advanced Search Options
- Ability to search selected databases (via Advanced Search)
- Results tabs for Text, Multimedia, Data/Software, Public Access
- Sort by Rank, Date, Title, Author
- Limit results to specific databases
- Refine results by Topic, Authors, Country, Document Type (full text), Language, etc.
- Textual and visual clustering capabilities
- Mark/Save records
- Routine, customizable Alerts service

Thank you!



WORLDWIDE
SCIENCEAlliance

WorldWideScience.org Operating Agent
Lorrie Johnson
JohnsonL@osti.gov