

# Authors' Research Citations

## Guidance Notes

First, please visit the Math Department website <https://www.math.cuhk.edu.hk/>, then go to “research” → “Journal” to get the link, or visit *Web of Science* direct by the link below <https://www.webofscience.com/wos/woscc/basic-search>.

The screenshot displays a webpage with a background of mathematical wireframe structures. On the left, under the heading "Journals Managed by the IMS and our Department", there is a list of journals: "The Asian Journal of Mathematics", "Communications in Information and Systems", and "Methods and Application of Analysis". Below this, under "Other Journal Resources", a list includes "Web of Science (CUHK only)", "CUHK E-Journals Portal (CUHK only)", "ArXiv - Mathematics", "Mathematics Subject Classification", "AMS MathSciNet Search", "zbMATH", and "ScienceDirect". A large yellow arrow points from the "Web of Science (CUHK only)" entry to the right. On the right side of the page, there are five vertical banners for admission and enrichment programs: "Undergraduate Admission", "Postgraduate Admission", "COSINE (China and Overseas Study, Internship and Exchange Program)", "Mathcamp (Yau International Mathcamp)", and "EPYMT (Enrichment Programme for Young Mathematics Talents)".

You will enter the page of *Web of Science*.

The screenshot shows the Web of Science search interface. At the top, there are navigation links for "Search", "Marked List", "History", and "Alerts", along with "Sign In" and "Register" buttons. The main heading reads "Discover multidisciplinary content from the world's most trusted global citation database." Below this, there are two tabs: "DOCUMENTS" (selected) and "RESEARCHERS". The search area includes a dropdown menu for "Search in: Web of Science Core Collection" and "Editions: All". There are two sub-tabs: "DOCUMENTS" and "CITED REFERENCES". A search input field contains the text "Author" and a dropdown menu. To the right, there is a search box with the example text "Example: O'Brian C\* OR O'Brian C\*" and a green "AZ" icon. Below the search box are buttons for "+ Add row" and "+ Add date range", followed by the text "Advanced Search". At the bottom right of the search area are "Clear" and "Search" buttons.

## Search field

Use the drop-down menu to select your search field or choose **All Fields** to search any field in the *Web of Science* record. You could search by:

- Topic
- Author
- Affiliation
- Year published etc

Click **Add Row** to search multiple fields.

The screenshot displays the search interface for Web of Science. At the top, there are two tabs: 'DOCUMENTS' (selected) and 'RESEARCHERS'. Below the tabs, the search scope is set to 'Web of Science Core Collection' and 'Editions: All'. The search criteria are configured as follows:

- Field: Author (Example: O'Brian C\* OR OBrian C\*)
- Operator: And (Example: Johns Hopkins University)
- Field: Affiliation (Example: Johns Hopkins University)

Buttons for '+ Add row', '+ Add date range', and 'Advanced Search' are visible. At the bottom right, there are 'Clear' and 'Search' buttons.

Combine search terms using search operators **And** and **Or**. These may be typed in the search boxes or selected from the drop-down menus.

When you have entered all your search terms, click on the Search button.

## **Searching by an Author**

Enter your search term in the search box and ensure **Author** is selected in the drop-down menu.

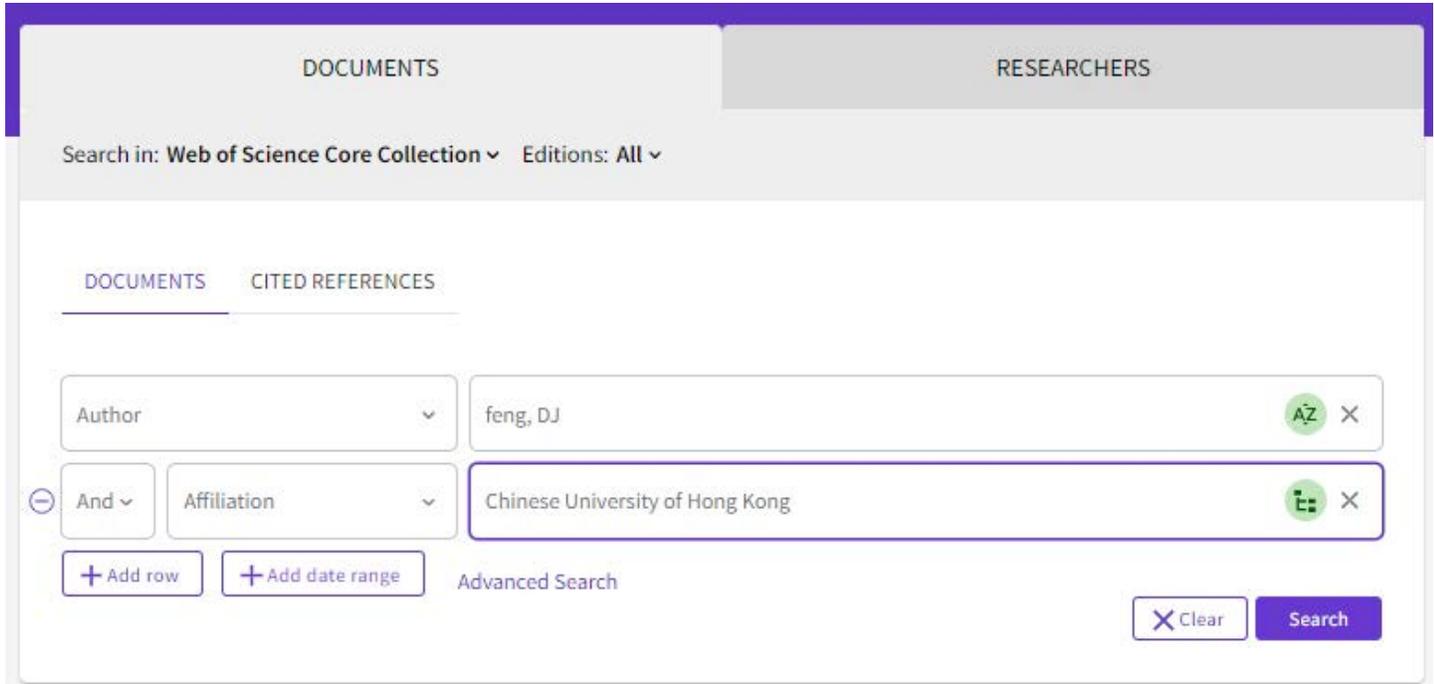
### ***Important notes:***

To search all the publications of an Author, please note the following three important choices, otherwise, the search results will be inaccurate or incomplete:

1. The way to type the Author's name.  
If we take Department Chairman Prof. Zou Jun as a sample, you could try searching by several combinations, i.e. **Zou, J**, or Zou, Jun or Zou, J\*
2. The way to select all the research universities or institutes where the Author has worked, i.e. Wuhan University, Chinese Academy of Sciences, Technical University of Munich, Chinese University of Hong Kong.
3. The way to specify all the Author's research fields, i.e. mathematics, mathematics applied, physics mathematical etc.

Being aware of the above, your search will be more accurate and complete. In the coming pages, will show you some examples and elaborations how to do the search.

To do a better search, you could try searching the Author's name plus his/her research institutes/universities (i.e. Feng, DJ + The Chinese University of Hong Kong). Please see the examples below.



The specified searching results (Author name with the affiliation you want to search) will be shown.

44 results from Web of Science Core Collection for:

Search query: **feng, DJ (Author) and Chinese University of Hong Kong (Affiliation)** Analyze Results

Copy query link

Publications You may also like...

Refine results

Search within results for...

Quick Filters

- Early Access 2
- Open Access 30

Publication Years

- 2022 1
- 2021 3
- 2020 4

0/44 Add To Marked List Export Sort by

- Multifractal analysis of Bernoulli convolutions associated with Salem numbers**  
Feng, DJ  
 Mar 20 2012 | *ADVANCES IN MATHEMATICS* 229 (5), pp.3052-3077  
 We consider the multifractal structure of the Bernoulli convolution  $\nu(\lambda)$ , where  $\lambda \in (1, 2)$  is a Salem number. Let  $\tau(q)$  denote the spectrum of  $\nu(\lambda)$ . We show that if  $\alpha$  is an element of  $[\tau'(+\infty), \tau'(0+)]$ , then the level set  $E(\alpha) := \{x \text{ is an element of } \mathbb{R} : \lim_{r \rightarrow 0} \log \nu(\lambda)([x - r, x + r]) / \log r = \alpha\}$  ... Show  
Links [Free Full Text From Publisher](#) \*\*\*
- LYAPUNOV EXPONENTS FOR PRODUCTS OF MATRICES AND MULTIFRACTAL ANALYSIS. PART II: GENERAL MAT**  
Feng, DJ  
 Mar 2009 *MEMORIAE MATHESIOLOPHICAE JOURNAL OF MATHEMATICS* 17(3) ...

Another search examples (i.e. Feng, DJ + Shandong University)

The screenshot shows the Web of Science search interface. At the top, there are two tabs: 'DOCUMENTS' (selected) and 'RESEARCHERS'. Below the tabs, the search scope is set to 'Web of Science Core Collection' and 'Editions: All'. There are two main search criteria: 'Author' with the value 'feng, DJ' and 'Affiliation' with the value 'Shandong University'. The search is configured with 'And' logic. There are buttons for '+ Add row', '+ Add date range', 'Advanced Search', 'Clear', and 'Search'.

The specified searching results will be shown.

The screenshot shows the search results page. At the top, it says '72 results from Web of Science Core Collection for:'. The search query is 'feng, DJ (Author) and Shandong University (Affiliation)'. There is a 'Copy query link' button and an 'Analyze Results' button. Below the search bar, there are tabs for 'Publications' and 'You may also like...'. The 'Refine results' section includes a search box for results and a 'Quick Filters' section with 'Open Access' (7 results). The 'Publication Years' section shows a list of years from 2019 to 2022 with corresponding result counts: 2022 (1), 2021 (4), 2020 (4), and 2019 (5). The main results list shows two items:

- 1. **Detection of Flavor Adulterated Pu'er Tea by Near-Infrared Spectroscopy**  
Wang, SX; Xiao, H; (...); Feng, DJ  
Dec 2020 | LASER & OPTOELECTRONICS PROGRESS 57 (23)  
In this work, a quick and quantitative detection method for three common flavors, i. e., coumarin, vanillin, and ethyl maltol, in flavor adulterated Puler tea. The Fourier transform near-infrared spectroscopy combined with the partial least squares method is used to quantitatively flavor adulterated Puler tea. The quantitative analysis models for three adulterated fl ... Show  
Links View full text \*\*\*
- 2. **Evanescent wave analysis and experimental realization of refractive index sensor based on D-shaped plastic**  
Liu, GX and Feng, DJ  
2016 | OPTIK 127 (2) , pp.690-693

To check the Author's published name stated in *Web of Science*, please click any of the Author's name to see his/her published name.

44 results from Web of Science Core Collection for:

Q feng, DJ (Author) and Chinese University of Hong Kong (Affiliation) Analyze Results

Copy query link

Publications You may also like...

Refine results

Search within results for...

Quick Filters

- Early Access 2
- Open Access 30

Publication Years

- 2022 1
- 2021 3
- 2020 4

0/44 Add To Marked List Export Sort by

1 **Multifractal analysis of Bernoulli convolutions associated with Salem numbers**  
 Feng, Dj   
 Mar 20 2012 | [ADVANCES IN MATHEMATICS](#) 229 (5), pp.3052-3077  
 We consider the multifractal structure of the Bernoulli convolution  $\nu(\lambda)$ , where  $\lambda \in (-1, 1)$  is a Salem number. Let  $\tau(\alpha)$  denote the level set spectrum of  $\nu(\lambda)$ . We show that if  $\alpha$  is an element of  $[\tau^*(+\infty), \tau^*(0+)]$ , then the level set  $E(\alpha) := \{x \text{ is an element of } \mathbb{R} : \lim_{r \rightarrow 0} \log \nu(\lambda)([x-r, x+r]) / \log r = \alpha\}$  ... Show

[Links](#) [Free Full Text From Publisher](#) \*\*\*

2 **LYAPUNOV EXPONENTS FOR PRODUCTS OF MATRICES AND MULTIFRACTAL ANALYSIS. PART II: GENERAL MAT**  
 Feng, Dj

You could see all the published name combinations for the Author and all the research universities or institutes where he/she has worked. It may help you to do searching.

**Feng, De-Jun** *This is an algorithmically generated author record* ⓘ

Chinese University of Hong Kong  
 Dept Math  
 HONG KONG, PEOPLES R CHINA



**Published names** ⓘ

Feng, Dejun	Feng, De-Jun	Feng, DJ	Feng, D. J.	Feng Dejun	Feng, De-jun	Feng De-Jun	Feng, DeJun
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[Show less](#)

**Organizations** ⓘ

2007-2022	Chinese University of Hong Kong
2021-2021	Guangdong University of Technology
2021-2021	Zhejiang Ocean University <a href="#">Show more</a>

To specify the Author's research fields, please go → Refine results → Web of Science Categories, you may select the publications in the specified research field (i.e. mathematics, mathematics applied, physics mathematical). Then your search will be more specific.

44 results from Web of Science Core Collection for:

Q feng, DJ (Author) and Chinese University of Hong Kong (Affiliation)

Copy query link

Publications You may also like...

Refine results

Search within results for...

Quick Filters

- Early Access 2
- Open Access 30

Publication Years

Document Types

Web of Science Categories

- Mathematics 39
- Mathematics Applied 17
- Physics Mathematical 4
- Statistics Probability 2

0/44 Add To Marked List Export

1 **Multifractal analysis of Bernoulli convolutions associated with Salem numbers**  
Feng, DJ  
Mar 20 2012 | *ADVANCES IN MATHEMATICS* 229 (5) , pp.3052-3077  
We consider the multifractal structure of the Bernoulli convolution  $\nu(\lambda)$ , where  $\lambda \in (-1, 1)$  is a Salem spectrum of  $\nu(\lambda)$ . We show that if  $\alpha$  is an element of  $(\tau^+(\infty), \tau^+(0+))$ , then the level set  $E(\alpha) := \{x \text{ is an element of } \mathbb{R} : \lim_{r \rightarrow 0} \log \nu(\lambda)([x-r, x+r]) / \log r = \alpha\}$

Links Free Full Text From Publisher

2 **LYAPUNOV EXPONENTS FOR PRODUCTS OF MATRICES AND MULTIFRACTAL ANALYSIS**  
Feng, DJ  
Mar 2009 | *ISRAEL JOURNAL OF MATHEMATICS* 170 (1) , pp.355-394  
We continue the study in [15, 18] on the upper Lyapunov exponents for products of matrices. Here we continue the study on the lower Lyapunov exponents. In any case, we focus on the formula about Lyapunov exponents we obtained in part I does not hold in this setting. In any case, we focus on the function  $M(x)$  takes finite values  $M(1), \dots, M(m)$ . In this case, we prove the variational principle for the Lyapunov exponents.

Links Full Text at Publisher

If I select “physics mathematical”, 4 results within this research field will be shown accordingly.

□	1 Lyapunov Spectrum of Asymptotically Sub-additive Potentials	71
🔒	<p><a href="#">Feng, D</a> and <a href="#">Huang, W</a>            Jul 2010   <a href="#">COMMUNICATIONS IN MATHEMATICAL PHYSICS</a> 297 (1) , pp.1-43</p> <p>For general asymptotically sub-additive potentials (resp. asymptotically additive potentials) on general topological dynamical systems, we establish some variational relations between the topological entropy of the level sets of Lyapunov exponents, measure theoretic entropies and topological pressures in this general situation. Most of our results are obtained without the assumption of the existence of a Gibbs measure.  <a href="#">Show more</a></p> <p><a href="#">Link</a> <a href="#">Free Submitted Article From Repository</a> <a href="#">Full Text at Publisher</a> ***</p>	<p>Citations</p> <p>49 References</p> <p><a href="#">Related records</a> (3)</p>
□	2 The Hausdorff dimension of recurrent sets in symbolic spaces	39
🔒	<p><a href="#">Feng, D</a> and <a href="#">Wu, J</a>            Jan 2001   <a href="#">NONLINEARITY</a> 14 (1) , pp.81-85</p> <p>Let <math>(\Sigma, \sigma)</math> be the one-sided shift space on <math>m</math> symbols. For any <math>x = (x(i))_{i \geq 1}</math> greater than or equal to 1 is an element of <math>\Sigma</math> and positive integer <math>n</math>, define  <math>R_n(x) = \inf_{j \geq 1} \sum_{i=0}^{n-1} d(x, \sigma^i x) = \inf_{j \geq 1} \sum_{i=0}^{n-1}  x(i) - x(j+i) </math>.  <a href="#">Show more</a></p> <p><a href="#">Link</a> <a href="#">Free Published Article From Repository</a> <a href="#">Full Text at Publisher</a> ***</p>	<p>Citations</p> <p>2 References</p> <p><a href="#">Related records</a></p>
□	3 Multifractal Formalism for Almost all Self-Affine Measures	18
🔒	<p><a href="#">Barreira, J</a> and <a href="#">Feng, D</a>            Mar 2013   <a href="#">COMMUNICATIONS IN MATHEMATICAL PHYSICS</a> 318 (2) , pp.473-504</p> <p>We conduct the multifractal analysis of self-affine measures for "almost all" family of affine maps. Besides partially extending Falconer's formula of <math>L(q)</math> spectrum outside the range <math>1 &lt; q &lt; q_*</math> a parts per thousand currency sign 2, the multifractal formalism is also partially verified.  <a href="#">Show more</a></p> <p><a href="#">Link</a> <a href="#">Free Submitted Article From Repository</a> <a href="#">Full Text at Publisher</a> ***</p>	<p>Citations</p> <p>53 References</p> <p><a href="#">Related records</a></p>
□	4 Non-uniqueness of ergodic measures with full Hausdorff dimensions on a Gatzouras-Lalley carpet	4
🔒	<p><a href="#">Barreira, J</a> and <a href="#">Feng, D</a>            Sep 2011   <a href="#">NONLINEARITY</a> 24 (9) , pp.2563-2567</p> <p>In this article, we show that on certain Gatzouras-Lalley carpets, more than one ergodic measure exists with full Hausdorff dimensions. This gives a negative answer to a conjecture of Gatzouras and Peres (1997 Ergod. Theory Dyn. Syst. 17 147-67.)  <a href="#">Show more</a></p> <p><a href="#">Link</a> <a href="#">Free Submitted Article From Repository</a> <a href="#">View full text</a> ***</p>	<p>Citations</p> <p>20 References</p> <p><a href="#">Related records</a></p>

## Searching by a topic

Enter your search term in the search box and ensure Topic is selected in the drop-down menu.

If you know the entire topic, you could type it all in the search box. If don't, you could type some key words on it.

The screenshot shows a search interface with two tabs: "DOCUMENTS" (selected) and "RESEARCHERS". Below the tabs, it says "Search in: Web of Science Core Collection" and "Editions: All". There are two sub-tabs: "DOCUMENTS" (selected) and "CITED REFERENCES". A search box contains the text "Detection of Flavor Adulterated Pu'er Tea by Near-Infrared Spectroscopy" with a dropdown menu set to "Topic". Below the search box are buttons for "+ Add row" and "+ Add date range", and the text "Advanced Search". At the bottom right are "Clear" and "Search" buttons.

The screenshot shows the same search interface as above. The search box now contains two terms: "Flavor Adulterated Pu'er Tea" and "Spectroscopy". A dropdown menu is set to "And" and another dropdown menu is set to "Topic". The "Advanced Search" text and buttons are still present.

## Author's citation

Please click any of the Author's name in the publication, then you could find the brief info of the Author, i.e. published name, organisations, all the publications etc.

To view more details in citation, you may click "view citation report".

**An, Lixiang** This is an algorithmically generated author record

Central China Normal University  
Sch Math & Stat  
WUHAN, PEOPLES R CHINA

**Published names** An, Li-Xiang An, Lixiang

**Organizations**  
2013-2021 Central China Normal University  
2019-2019 Chinese University of Hong Kong

**Metrics**

**Publication Metrics**

<b>6</b> H-Index	<b>9</b> Total Publications
<b>164</b> Sum of Times Cited	<b>80</b> Citing Articles

[View citation report](#)

**9 Publications from the Web of Science Core Collection**

[View as set of results](#) Date: Newest first All Publications < 1 of 1 >

On self-similar spectral measures  
[An, Lixiang and Wang, Cong](#)  
Published 2021 | [JOURNAL OF FUNCTIONAL ANALYSIS](#) 3 Times Cited

Spectrality and non-spectrality of the Riesz product measures with three elements in digit sets 11

**Author Impact Beampoint Summary**

CITATION PERCENTILE

0 20 40 60 80 100

Author's publication percentile range  
af Median citation percentile

In citation report, you could find the total no. of publication, the total no. of citations, and times cited for every year of the Author.

Publications

**9**  
Total

From 1956 to 2022

Citing Articles

**80** Analyze  
Total

**74** Analyze  
Without self-citations

Times Cited

**164**  
Total

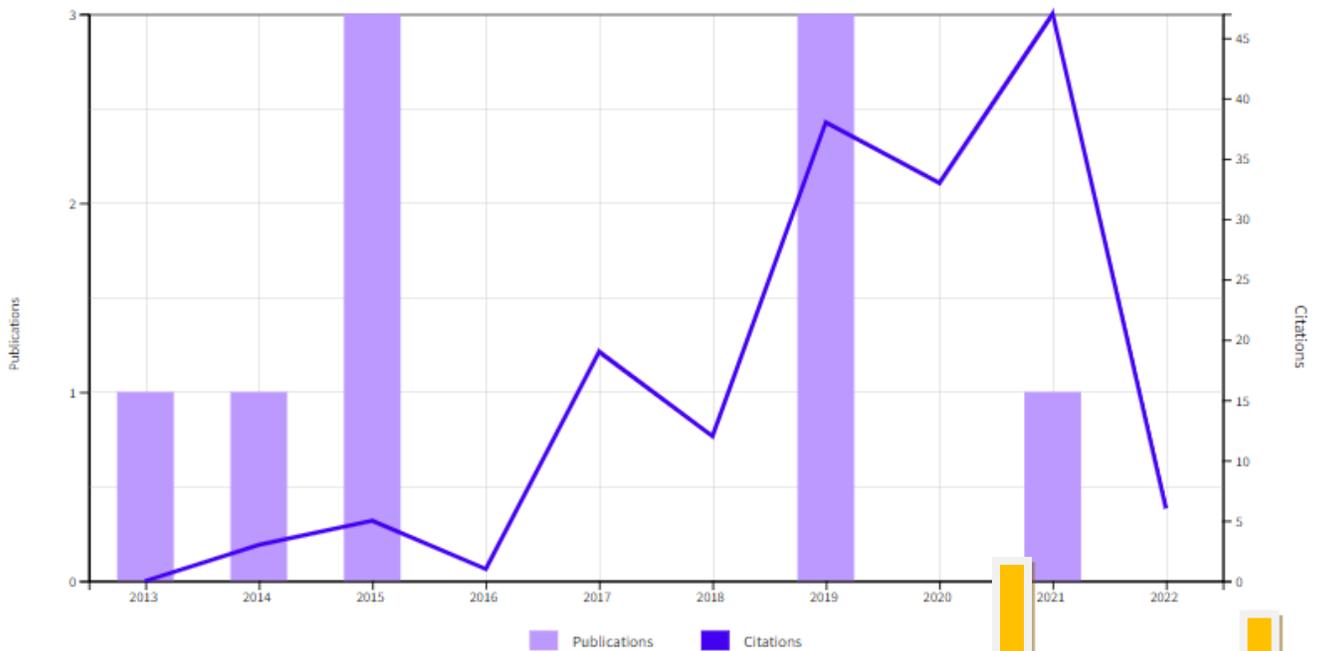
**152**  
Without self-citations

18.22  
Average per item

**6**  
H-Index

Times Cited and Publications Over Time

DOWNLOAD



9 Publications		Sort by: Citations: highest first		< 1 of 1 >		Citations					Average per year	Total
						2018	2019	2020	2021	2022		
		Total	12	38	33	47	6	18.22	164			
1	A class of spectral Moran measures An, LX and He, XG Jan 1 2014   JOURNAL OF FUNCTIONAL ANALYSIS 266 (1) , pp.343-354		5	13	10	10	2	5.89	53			
2	Spectrality of a class of infinite convolutions An, LX; He, XG and Lau, KS Oct 1 2015   ADVANCES IN MATHEMATICS 283 , pp.362-376		4	13	9	9	0	5.38	43			
3	Spectrality of infinite Bernoulli convolutions An, LX; He, XG and Li, HX Sep 1 2015   JOURNAL OF FUNCTIONAL ANALYSIS 269 (5) , pp.1571-1590		3	7	5	6	0	3.25	26			

## Journal ranking

In the page of publication, if page down, you may find the brief information of the Journal, i.e. *Web of Science* categories (applied mathematics or pure mathematics), the impact factor of the Journal etc.

### Spectral structure and spectral eigenvalue problems of a class of self-similar spectral measures

By: He, XG (He, Xing-Gang) [1], [2]; Tang, MW (Tang, Min-wei) [3]; Wu, ZY (Wu, Zhi-Yi) [1], [2]

JOURNAL OF FUNCTIONAL ANALYSIS

Volume: 277 Issue: 10 Page: 3688-3722

DOI: 10.1016/j.jfa.2019.05.019

Published: NOV 15 2019

Indexed: 2019-10-09

Document Type: Article

#### Abstract

Let  $\mu$  be a probability measure with compact support in  $\mathbb{R}$ . The measure  $\mu$ , is called a spectral measure if there exists a countable set  $\Lambda$  subset of  $\mathbb{R}$  such that the family of exponential functions  $\{e^{-2\pi i \lambda x} : \lambda \text{ is an element of } \Lambda\}$  forms an orthonormal basis for  $L^2(\mu)$ . In this paper, we study the structure of spectra and the real number  $t$  such that both  $\Lambda$  and  $t\Lambda$  are spectra for a class of self-similar spectral measures, which have symmetric spectra. Examples are given to explain our theory. (C) 2019 Elsevier Inc. All rights reserved.

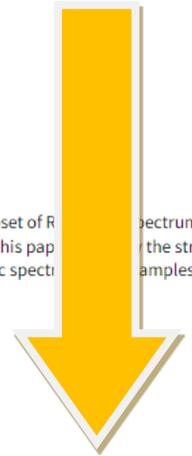
#### Keywords

**Author Keywords:** Self-similar measures; Spectral eigenvalue problems; Spectral structure problems; Spectral measures

**Keywords Plus:** FOURIER-SERIES; MOCK; CONVOLUTIONS

#### Author Information

**Corresponding Address:** Wu, Zhi-Yi (corresponding author)



To view more details, please click the Journal Impact Factor no. (i.e. 2.07 below), then JCR Category, Category Rank and Category Quartile for this Journal will be shown.

**Journal information**

[ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY](#)

ISSN: 2162-8769  
eISSN: 2162-8777

**Current Publisher:** ELECTROCHEMICAL SOC INC, 65 SOUTH MAIN STREET, PENNINGTON, NJ 08534

**Journal Impact Factor:** Journal Citation Report™

**Research Areas:** Materials Science; Physics

**Web of Science Categories:** Materials Science, Multidisciplinary; Physics, Applied

Web of Science Usage Count

8 8

**ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY** ×

**Journal Impact Factor™**

2020 Five Year

**2.07 2.016**

JCR Category	Category Rank	Category Quartile
MATERIALS SCIENCE, MULTIDISCIPLINARY <i>in SCIE edition</i>	243/334	Q3
PHYSICS, APPLIED <i>in SCIE edition</i>	97/160	Q3

Source: Journal Citation Reports™ 2020

You may check the Journal Citation Report to view Journal's performance.

**Journal information**

ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY

ISSN: 2162-8769  
eISSN: 2162-8777

**Current Publisher:** ELECTROCHEMICAL SOC INC, 65 SOUTH MAIN STREET, PENNINGTON, NJ 08534

**Journal Impact Factor:** Journal Citation Report™

**Research Areas:** Materials Science; Physics

**Web of Science Categories:** Materials Science, Multidisciplinary; Physics, Applied

**2.07**

**Journal Impact Factor™ (2020)**

## Journal's performance

### Journal Impact Factor

The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection. It should be used with careful attention to the many factors that influence citation rates, such as the volume of publication and citations characteristics of the subject area and type of journal. The Journal Impact Factor can complement expert opinion and informed peer review. In the case of academic evaluation for tenure, it is inappropriate to use a journal-level metric as a proxy measure for individual researchers, institutions, or articles. [Learn more](#)

2020 JOURNAL IMPACT FACTOR

**2.070**

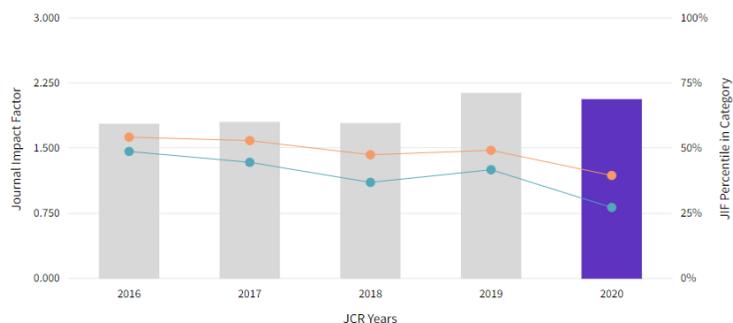
[View calculation](#)

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

1.603

[View calculation](#)

#### Journal Impact Factor Trend 2020



#### Journal Impact Factor contributing items

Citable items (675)		Citing Sources (330)
TITLE	CITATION COUNT	
2300V Reverse Breakdown Voltage Ga2O3 Schottky Rectifiers	32	
Review-Field-Effect Transistor Biosensing: Devices and Clinical Applications	31	
Review-Theory and Characterization of Doping and Defects in beta-Ga2O3	26	
Review-Mn4+-Activated Red and Deep Red-Emitting Phosphors	24	
Silver-Doped Titania Modified Carbon Electrode for Electrochemical Studies of Furantril	22	
Review-Phosphor Plates for High-Power LED Applications: Challenges and Opportunities toward Perfect Lighting	19	
Review-Narrow-Band Nitride Phosphors for Wide Color-Gamut White LED Backlighting	18	

Updated on 4 April 2022