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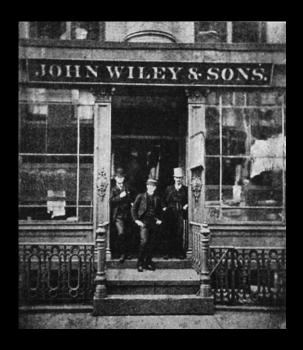


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October 08, 2014

# Wiley Authors Awarded 2014 Nobel Prize in Chemistry

John Wiley & Sons, Inc., is pleased to learn that The Royal Swedish Academy of Sciences has awarded the Nobel Prize in Chemistry for 2014 jointly to Eric Betzig, Stefan W. Hell and William E. Moerner.



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Eric Betzig, of Janelia Farm Research Campus, Howard Hughes Medical Institute,
Ashburn, VA, USA, Stefan W. Hell of Max Planck Institute for Biophysical Chemistry, Göttingen, and German Cancer
Research Center, Heidelberg, Germany and William E. Moerner of Stanford University, Stanford, CA, USA, were awarded
the Nobel Prize "for the development of super-resolved fluorescence microscopy".

Eric Betzig published with Wiley as early as 1986 with an article in *Annals of the New York Academy of Sciences*, more recently he has had articles published in *Angewandte Chemie International Edition* and contributed to *Current Protocols in Cell Biology*.

Stefan W. Hell serves on the Editorial Boards of ChemPhysChem, Annalen der Physik, Journal of Biophotonics, and Journal of Microscopy, his latest research appearing in September this year as a cover story in Chemistry – A European Journal.

W. E. Moerner has published with Wiley throughout his career and serves on the Editorial Board of ChemPhysChem and formerly Single Molecules (now ceased). He also co-edited and contributed a chapter to Single-Molecule Optical Detection, Imaging and Spectroscopy (Wiley-VCH, 1997). He served as a guest editor for a special issue of ChemPhysChem on "Superresolution Imaging and Nanophotonics", to which he and Hell contributed.

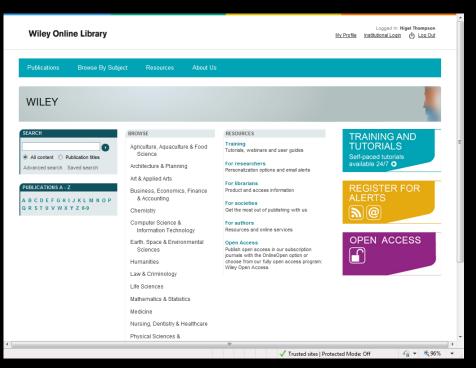
To celebrate the achievements of all three laureates, Wiley made the above-mentioned special issue and the following selection of content free to access until the end of 2014.

Contributions by Eric Betzig:

- From Angewandte Chemie International Edition: Facile and General Synthesis of Photoactivatable Xanthene Dyes
- From Annals of the New York Academy of Sciences: Scanning Optical Microscopy at λ/10 Resolution Using Near-Field Imaging Methods
- A book chapter on Photoactivated Localization Microscopy (PALM) of Adhesion Complexes from Single-Molecule Optical Detection, Imaging and Spectroscopy

Contributions by Stofan Hall:

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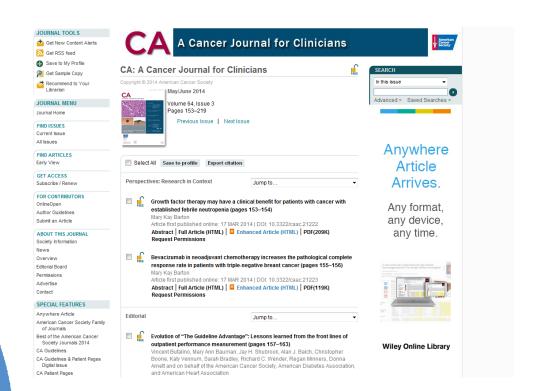
11 databases

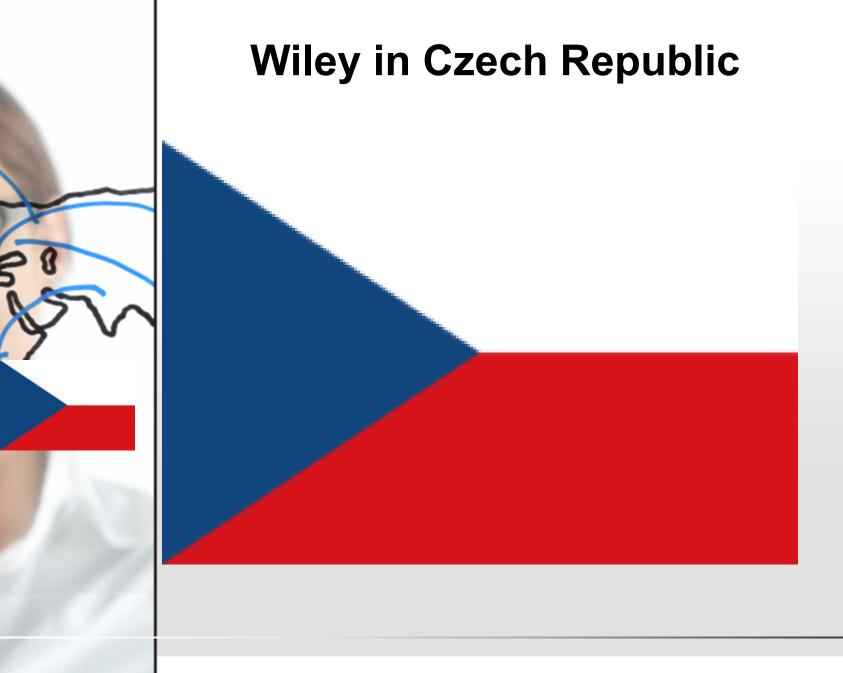
(chemistry & evidence based medicine)

# Wiley journals with Impact Factor

# #1 Journal in the whole of JCR

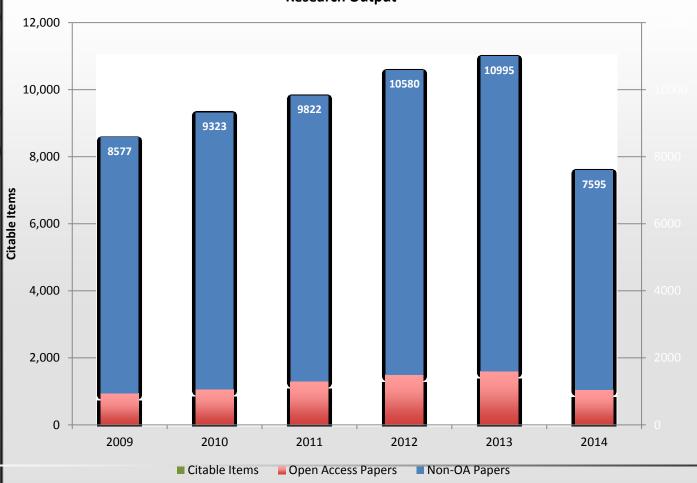
CA – A Cancer Journal for Clinicians, has the highest IF in the JCR with an IF of 162.5 with 0% self-citation!





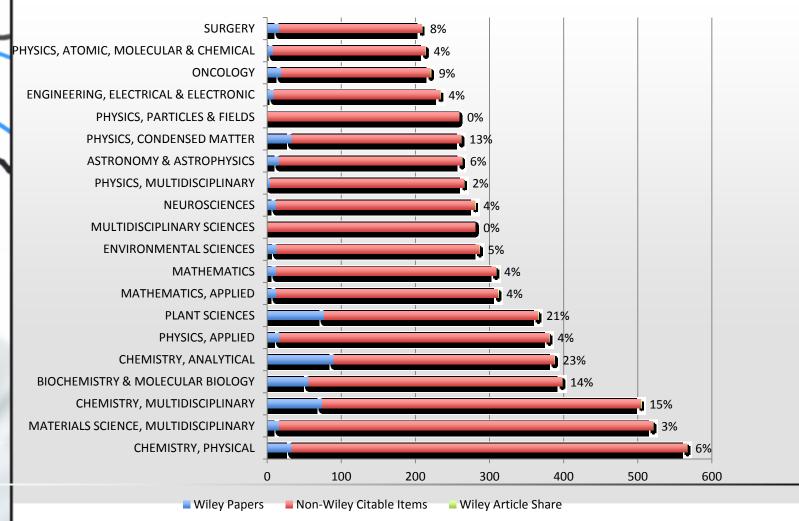
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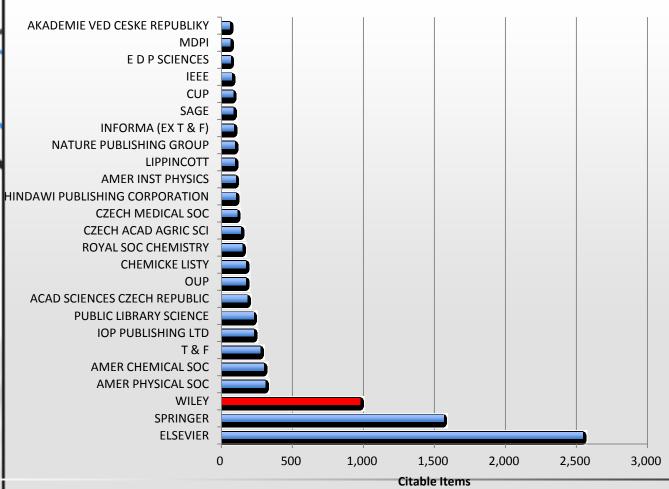
# 2013 Research Output – Top 20 Subjects



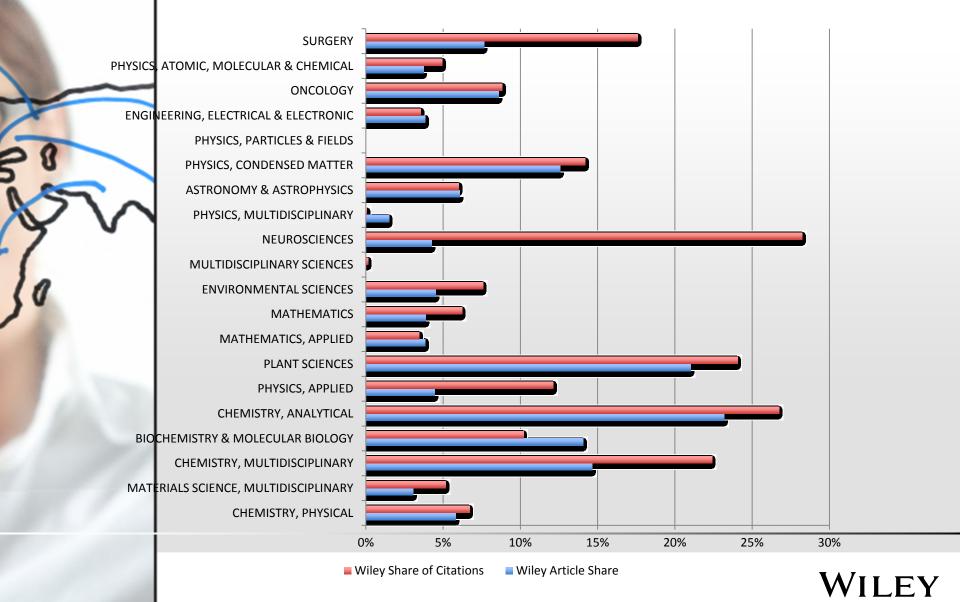


### **Top 25 Publishers 2013**

#### **Top 25 Publishers 2013**



# Wiley Market Shares - 2013 Articles vs 2013 Citations (20 Largest Categories)



# **Growth by Institute**

Institute	Citable Items 2009	Citable Items 2010	Citable Items 2011	Citable Items 2012	Citable Items 2013	Citable Items 2014	Avg. Growth per Year	Total Growth 2009-2013	Wiley Share 2013
Liberecky kraj	1	20	15	20	40	1	502%	3900%	0%
Fakultni Nemocnice Ostrava	28	15	124	206	313	311	200%	1018%	1%
Fakultni Nemocnice u svate Anny v Brne	82	139	150	321	544	660	65%	563%	3%
Fakultni Thomayerova nemocnice s poliklinikou	59	85	116	155	238	162	42%	303%	5%
CESKA NARODNI BANKA	18	42	73	71	70	24	51%	289%	13%
Vysoka Skola Ekonomicka v Praze	96	131	165	182	330	162	39%	244%	1%
UNIVERZITA HRADEC KRALOVE	48	97	85	75	158	121	47%	229%	6%
ANGLO-AMERICAN UNIVERSITY	4	20	13	8	13	2	97%	225%	8%
CESKE VYSOKE UCENI TECHNICKE V PRAZE	2077	2898	5543	8323	6487	4495	40%	212%	1%
STATNI USTAV RADIACNI OCHRANY	28	61	80	26	75	80	67%	168%	0%
VYSOKE UCENI TECHNICKE V BRNE	940	1324	1608	2169	2468	1844	28%	163%	4%
MENDELOVA UNIVERZITA V BRNE	832	899	1051	1800	2001	1525	27%	141%	10%
Fakultni Nemocnice Hradec Kralove	294	375	493	542	707	499	25%	140%	8%
Vlada Ceske Republiky Ministerstvo kultury	6	3	10	13	14	5	55%	133%	14%
SLEZSKA UNIVERZITA V OPAVE	121	162	197	196	279	237	24%	131%	0%



# Key Journal Innovations

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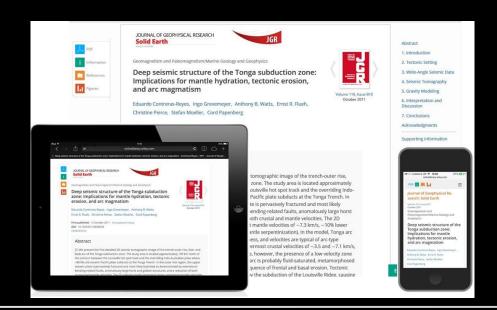




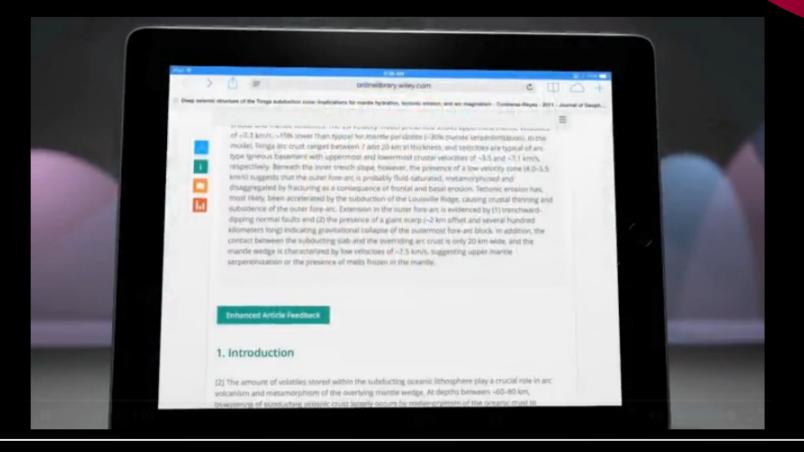


Journal Apps

# What is Anywhere Article?



# The Anywhere Article in action



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and even heart failure or heart attack [1,2] However, due to the limited lifespan of the battery, replacement surgery for the artificial pacemaker implanted beneath chest skin should be made every 7 to 10 years [or even every 3 to 6 years for an implantable cardioverter defibrillator (ICD)]. [3,4] This poses a risk to elderly persons, particularly with regard to infection or bleeding during the surgical procedure. [5] Enhancing the battery lifetime is thus a critical issue to assure longer working time of the implanted pacemakers, and increase the replacement cycle. An attractive approach to address this challenge is to adopt self-powered systems, which potentially can provide low maintenance, independent operation, and sustainability for implantable biomedical devices. [6,7]

Energy harvesting systems based on irregular vibrational motion and mechanical deformation are promising candidates for self-powered biomedical electronics.[8-12] Manipulating flexible piezoelectric energy harvesters [called nanogenerators (NGs)] inside the human body is of particularly medical interest, because they can scavenge inexhaustible biomechanical energy such as cardiac motion, muscle contraction/relaxation, and blood circulation and convert it to electrical energy [13] This could feasibly contribute to not only the operation of implantable heart rate monitoring and transmitting system, but also the development of a self-powered artificial pacemaker

by directly recharging the battery or stimulating the heart.[14,15] Many research teams including our group have explored various types of flexible piezoelectric materials on thin plastic substrates including ZnO nanowires, [16,17] BaTiQ thin film, [18] and lead zirconatate titanate (PZT) thin films.[19,20] Although the aforementioned flexible energy harvesters can provide power for operating small electronic devices, their relatively low output current of a few µA has severely restricted the range of applications in consumer electronics as well as biomedical devices: for example, a cardiac pacemaker operates at an input of 100 uA and 3 V.[17,21

Therefore, it is highly desirable to utilize materials with a high piezoelectric charge coefficient, which represents the piezoelectric capability of converting mechanical deformation into electric charges, to increase the output current efficiency for flexible energy harvesters. One such piezoelectric material is a new generation of single crystalline (1-x) Pb(Mg1/3 Nb/3 )O xPbTiO3 (PMN-PT). It has exceptional piezoelectric charge constant of d33 up to 2500 pC/N, which is almost 4 times higher than that of PZT, 20 times higher than that of BaTiO3, and 90 times higher than that of ZnO.[22,23]

Herein, we report a flexible and highly-efficient energy harvester enabled by single crystalline piezoelectric PMN-PT thin film on a plastic substrate to achieve a self-powered artificial pacemaker with significantly increased electric output current. The stress-controlled exfoliating process was optimized for transferring the PMN-PT thin film from a bulk substrate onto a flexible substrate without mechanical damage by utilizing the inherent residual stress of Ni film. [24] The maximum output







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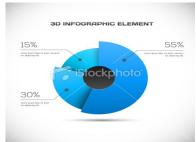
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