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Вадим Соболев

*Региональный представитель издательства Elsevier в
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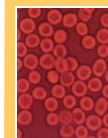


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Современное научное
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Публикация книги Сэра Александра Флеминга, посвященной новому революционному антибиотику в 1946г. - "*Penicillin: Its Practical Application*"



"*Анатомия Грэя*" опубликованная в 1858 г. стала основой для научного изучения анатомии и медицины в мире

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Niels Bohr

Physics



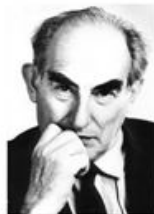
Louis Pasteur

Chemistry



Ivan Pavlov

Medicine



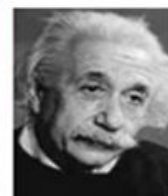
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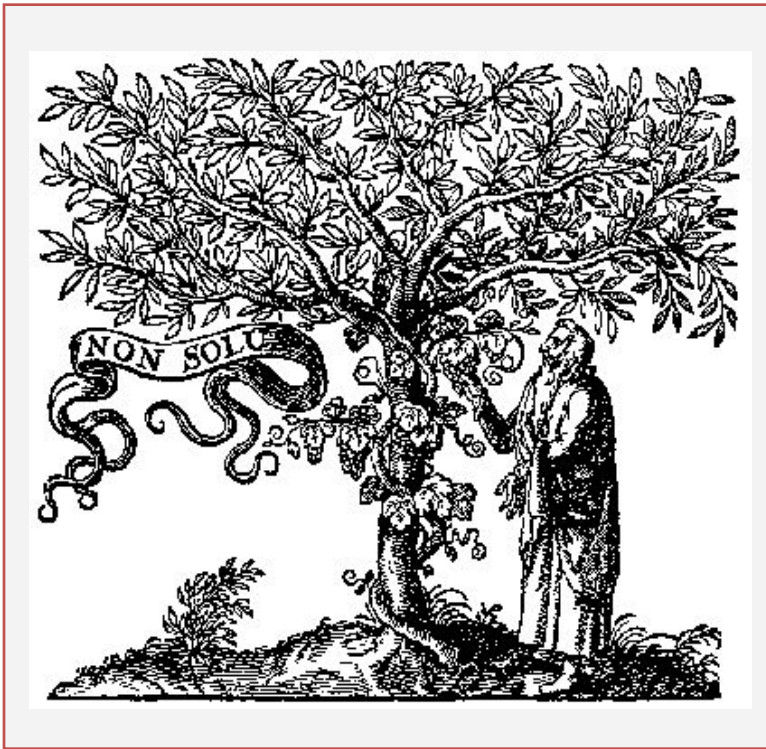


Gores Alferov

Physics



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- Придуман в 1620г. (Isaac Elzevir)
- Дерево ясеня, обвитое виноградной лозой, символизирует единение ученых, стремящихся к плодам просвещения - ученый, стоящий под деревом не одинок, он связан со всем научным сообществом

"Je suis seul dans ce lieu sans etre solitaire"

"I am alone in this place without being alone"

... the poet Destouches, 1724

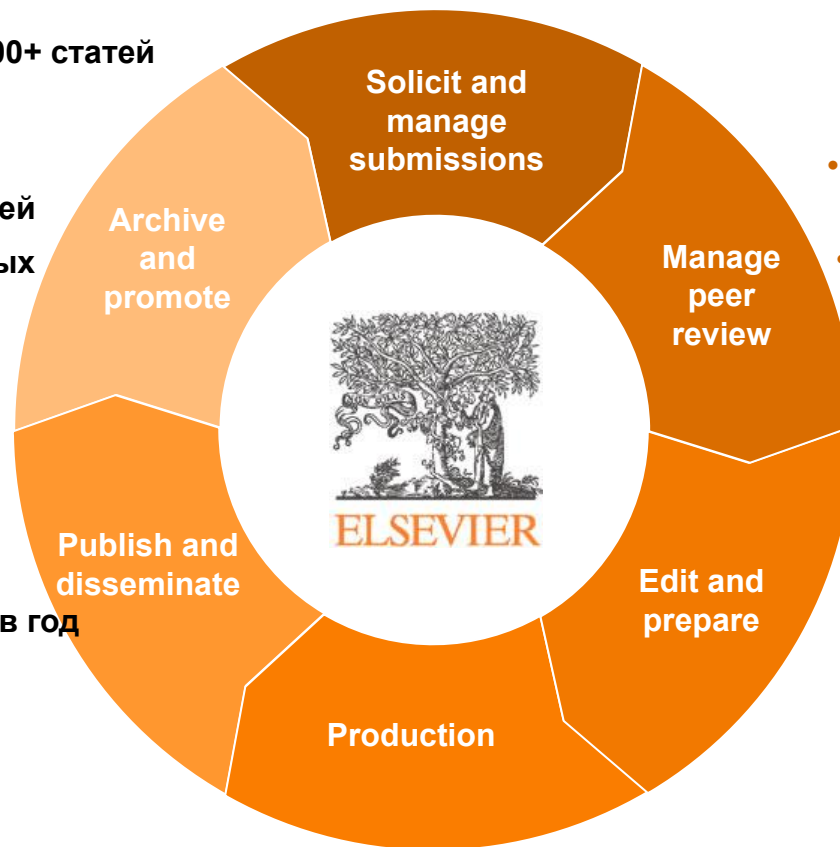
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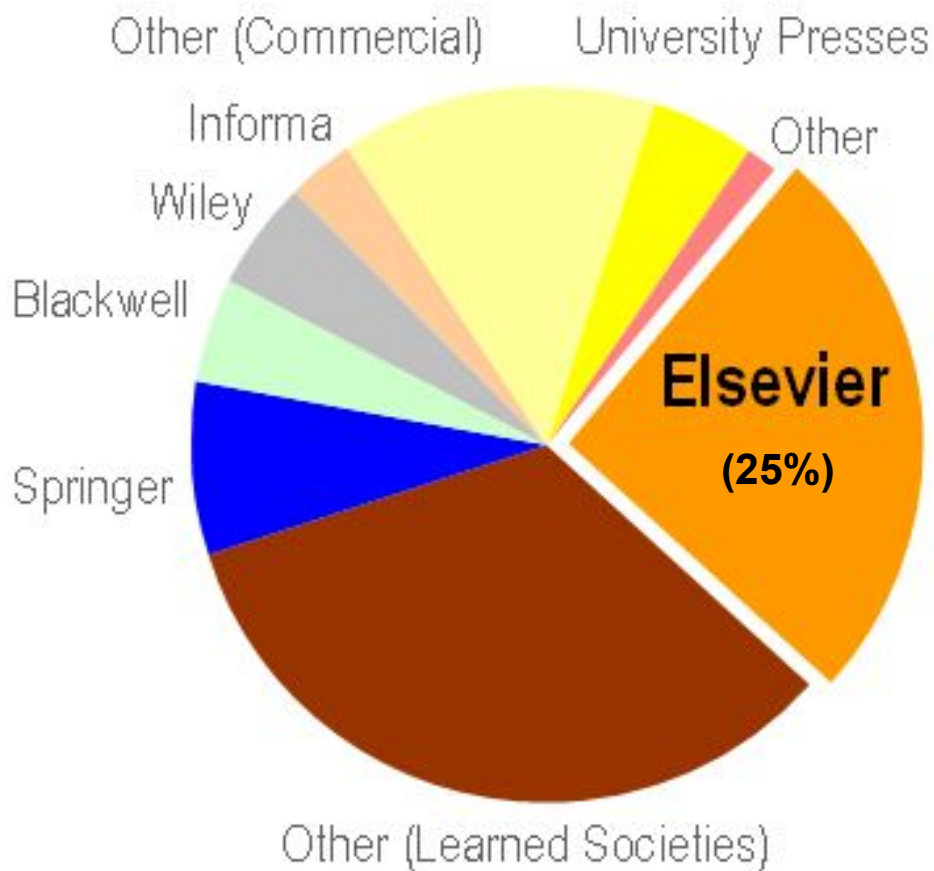
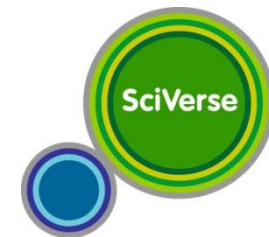


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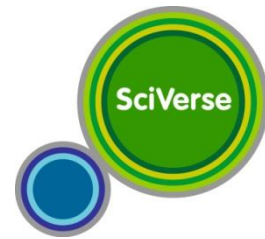
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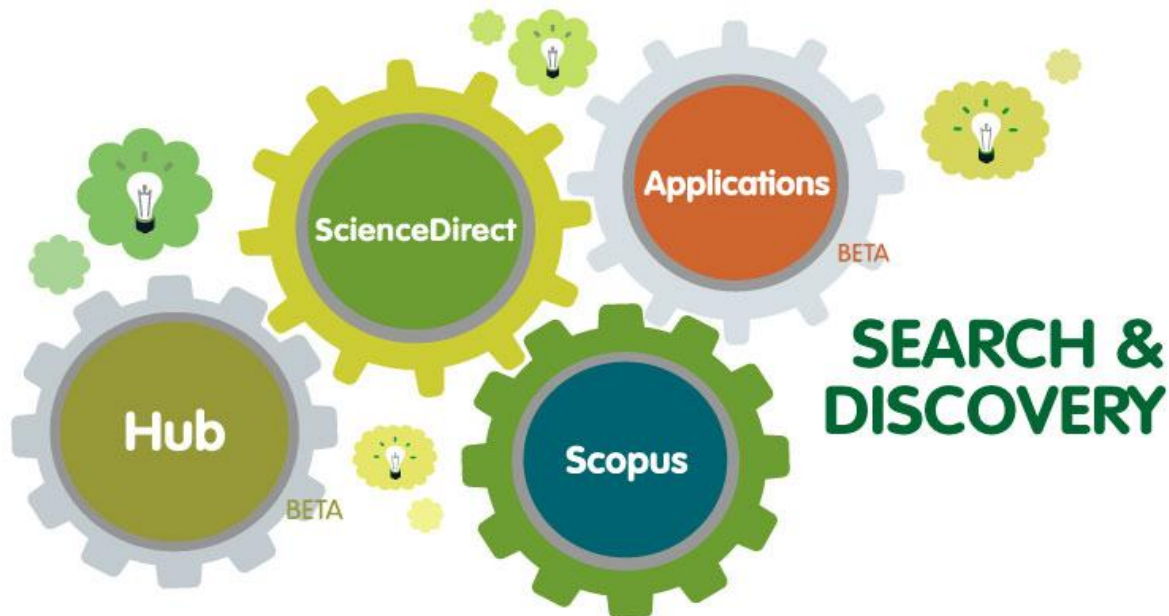
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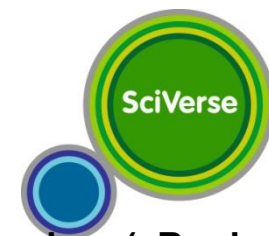
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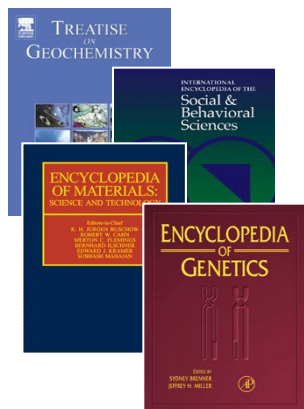
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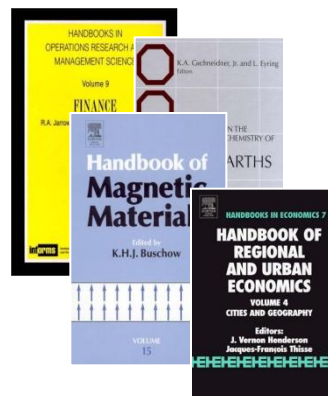


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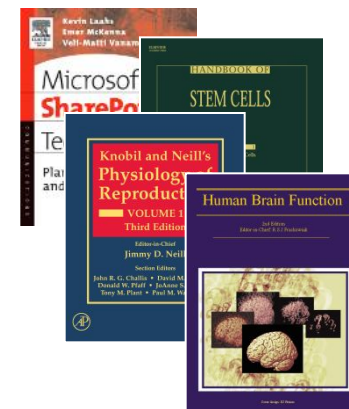


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14 **Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications** [Review Article](#)
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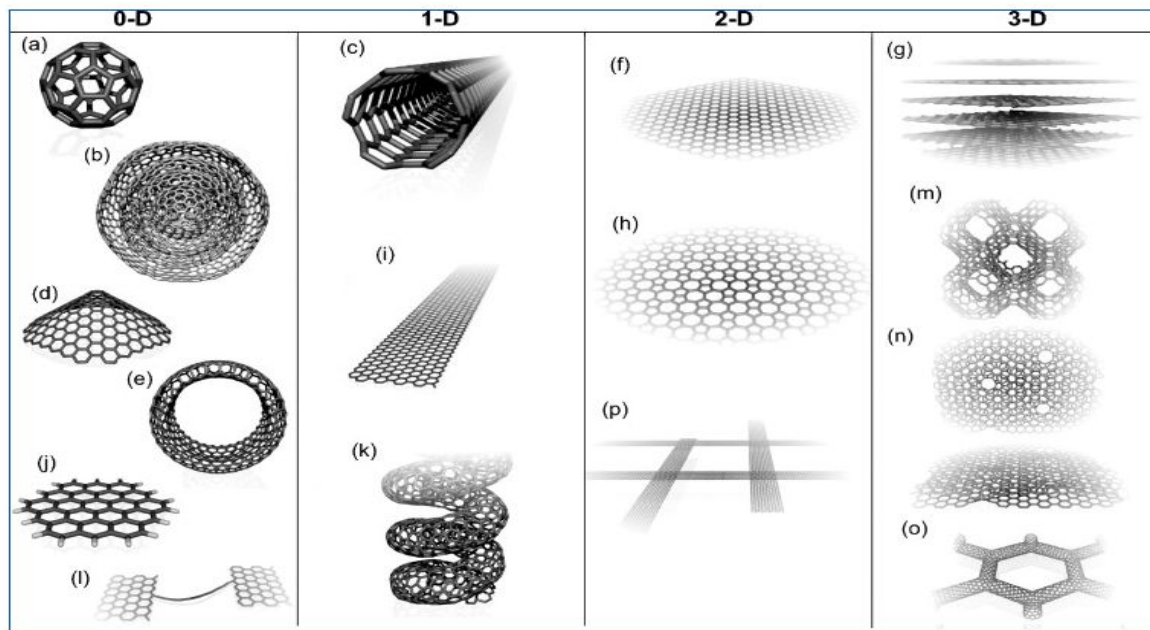
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Review

Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications

Mauricio Terrones^a, Andrés R. Botello-Méndez^b, Jessica Campos-Delgado^c, Florentino López-Urías^d, Yadira I. Vega-Cantú^d, Fernando J. Rodríguez-Macias^d, Ana Laura Elías^e, Emilio Muñoz-Sandoval^d, Abraham G. Cano-Márquez^d, Jean-Christophe Charlier^b and Humberto Terrones^b *[Author vitae]*



High-quality image (950K)

Figure 1. Molecular models of different types of sp^2 -like hybridized carbon nanostructures exhibiting different dimensionalities, 0D, 1D, 2D and 3D: (a) C_{60} ; Buckminsterfullerene; (b) nested giant fullerenes or graphitic onions; (c) carbon nanotube; (d) nanocones or nanohorns; (e) nanotoroids; (f) graphene surface; (g) 3D graphite crystal; (h) Haeckelite surface; (i) graphene nanoribbons; (j) graphene clusters; (k) helicoidal carbon nanotube; (l) short carbon chains; (m) 3D Schwarzite crystals; (n) carbon nanofoams (interconnected graphene surfaces with channels); (o) 3D nanotube networks, and (p) nanoribbons 2D networks.

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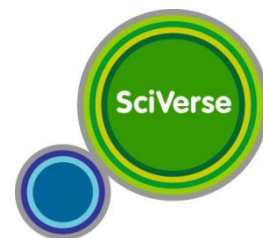
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The Nobel Prize in Physics 2010: Elsevier Grants Open Access

Elsevier would like to congratulate the 2010 Physics Nobel Prize winners Andre Geim and Konstantin Novoselov! The duo was awarded Nobel prize for "groundbreaking experiments regarding the two-dimensional material graphene".



Andre Geim (1958) is a Russian-born Dutch physicist, currently director of the Manchester Centre for Mesoscience and Nanotechnology at the Manchester University, known for the discovery of graphene, the development of gecko tape and demonstrations of diamagnetic levitation. Geim is also Advisory Board Member of [Physica E: Low-dimensional Systems and Nanostructures](#) and has been active as a Guest Editor in organising several Topical Issues on Graphene for Solid State Communications.



Konstantin Sergeevich Novoselov (1974) is a Russian-British physicist, currently Professor at the University of Manchester, known for his work on mesoscopic superconductivity (Hall magnetometry), Sub-atomic movements of magnetic domain walls, the invention of Gecko tape and graphene.

For several years, Geim and Novoselov have worked together to successfully produce, isolate, identify and characterize graphene - the thinnest and strongest material known to date. Geim and Novoselov extracted the graphene from a piece of graphite. Using regular adhesive tape they managed to obtain a flake of carbon with a thickness of just one atom.

In recognition of the importance of their work we are pleased to offer open access to the following articles that Geim and Novoselov have published with Elsevier.

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The rise of graphene

Подробная информация о статье

Geim, A.K. | Novoselov, K.S.

Manchester Centre for Mesoscience and Nanotechnology, University of Manchester, Oxford Road, Manchester M13 9PL, United Kingdom

Abstract

Graphene is a rapidly rising star on the horizon of materials science and condensed-matter physics. This strictly two-dimensional material exhibits exceptionally high crystal and electronic quality, and, despite its short history, has already revealed a cornucopia of new physics and potential applications, which are briefly discussed here. Whereas one can be certain of the realness of applications only when commercial products appear, **graphene** no longer requires any further proof of its importance in terms of fundamental physics. Owing to its unusual electronic spectrum, **graphene** has led to the emergence of a new paradigm of 'relativistic' condensed-matter physics, where quantum relativistic phenomena, some of which are unobservable in high-energy physics, can now be mimicked and tested in table-top experiments. More generally, **graphene** represents a conceptually new class of materials that are only one atom thick, and, on this basis, offers new inroads into low-dimensional physics that has never ceased to surprise and continues to provide a fertile ground for applications. ©2007 Nature Publishing Group.

Language of original document

English

Index Keywords

Engineering controlled terms: Electronic structure; Olefins; Spectrum analysis

Engineering uncontrolled terms: Electronic quality; Electronic spectrum; **Graphene**

Engineering main heading: Materials science

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1 Wallace, P.R.

The band theory of graphite

(1947) *Physical Review*, 71 (9), pp. 622-634. Cited 742 times.

doi: 10.1103/PhysRev.71.622

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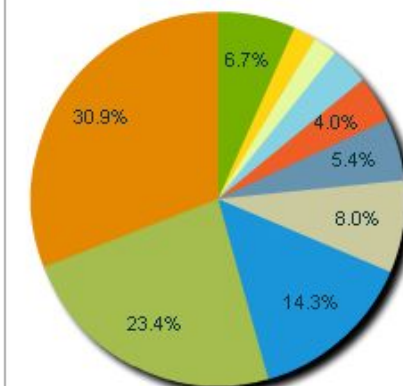
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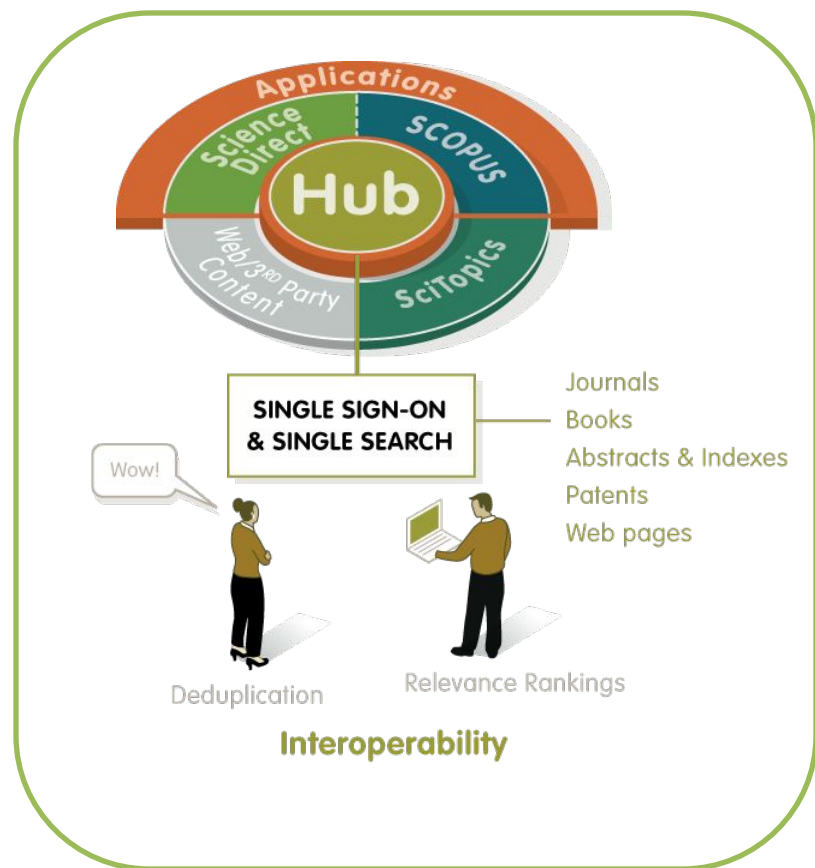
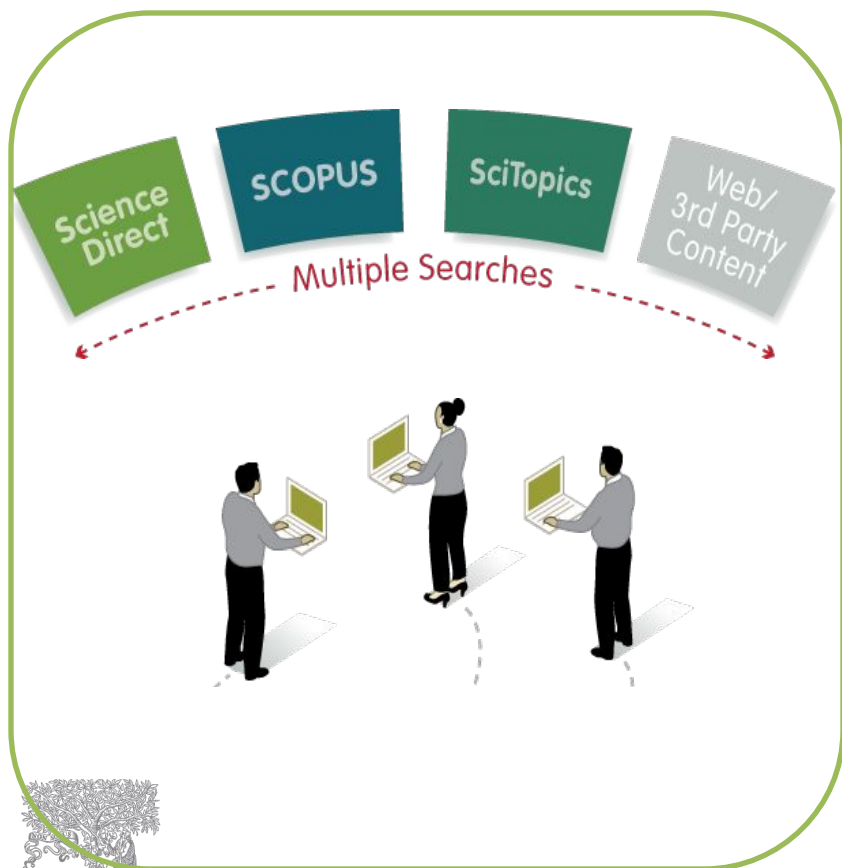
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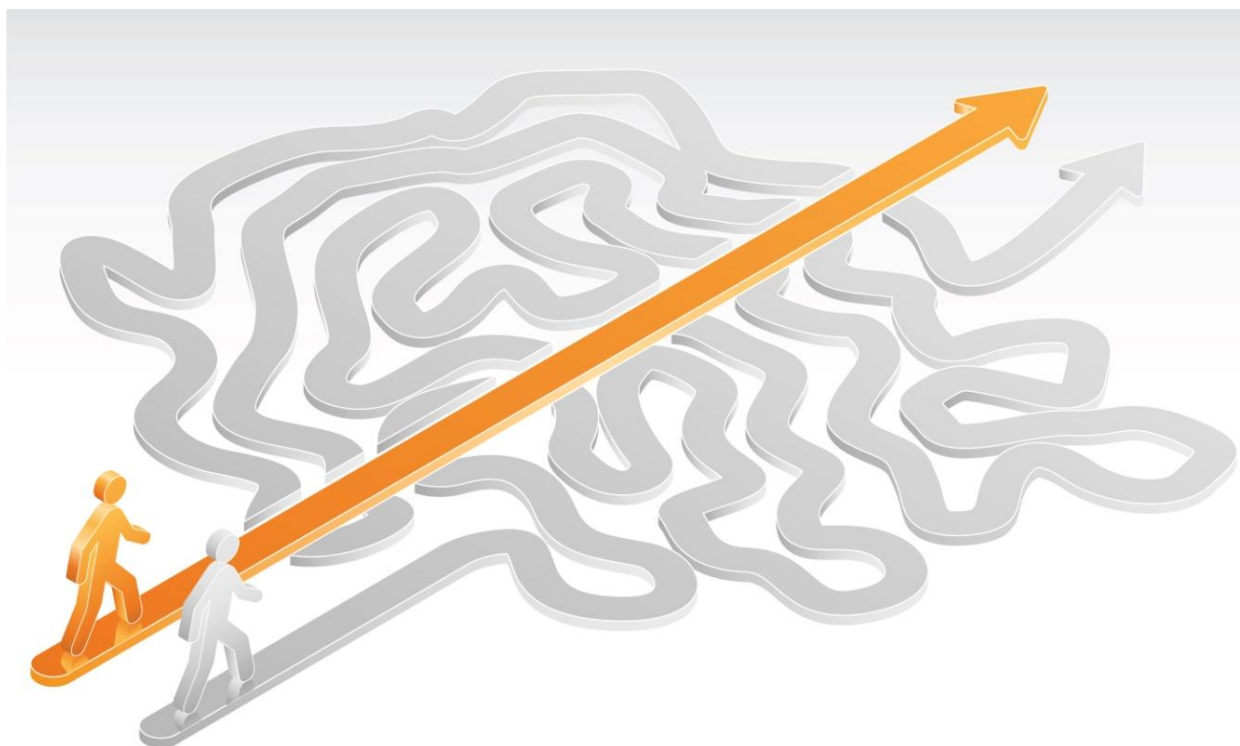
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