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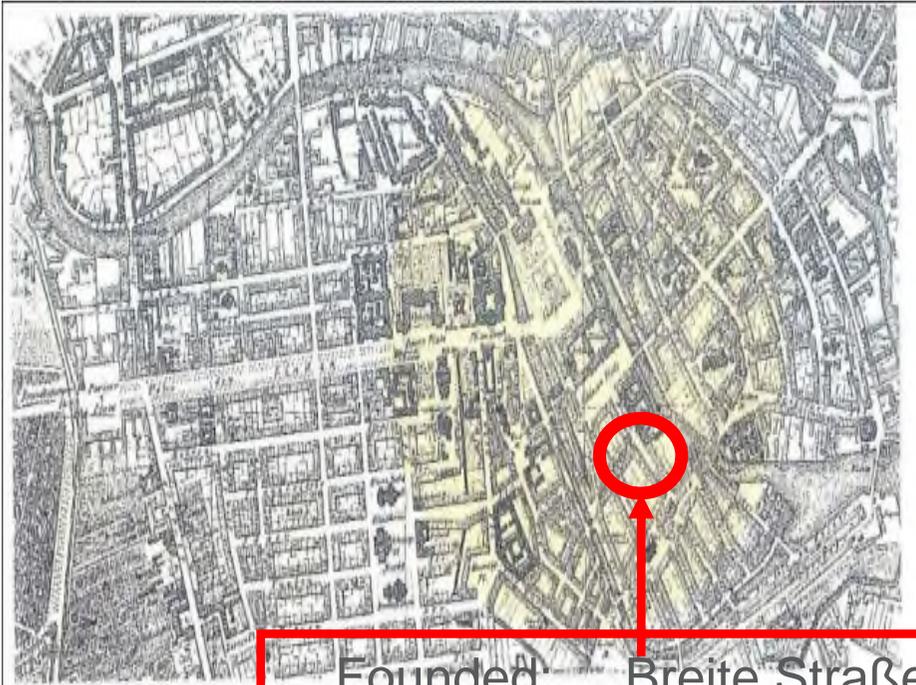
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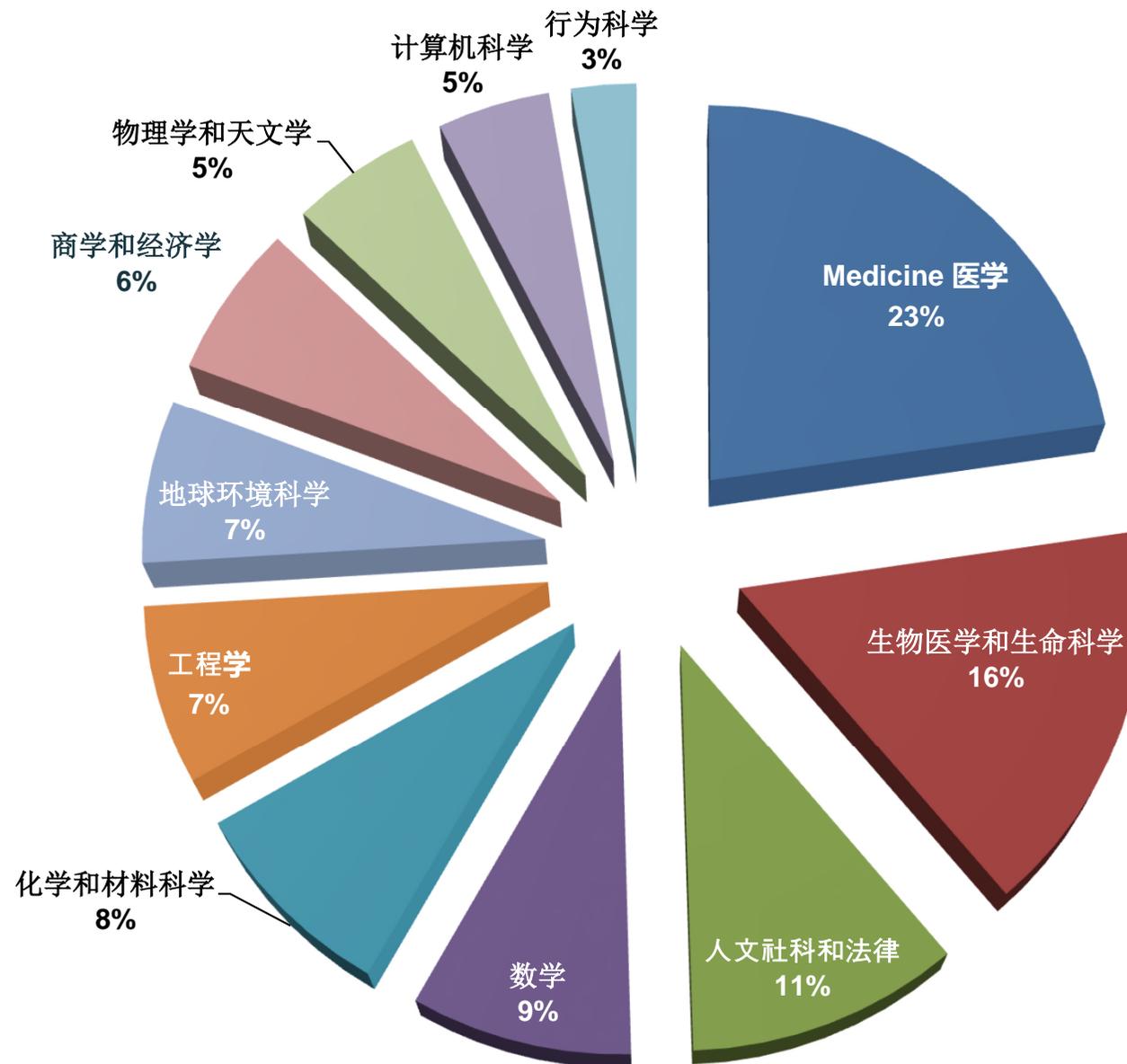
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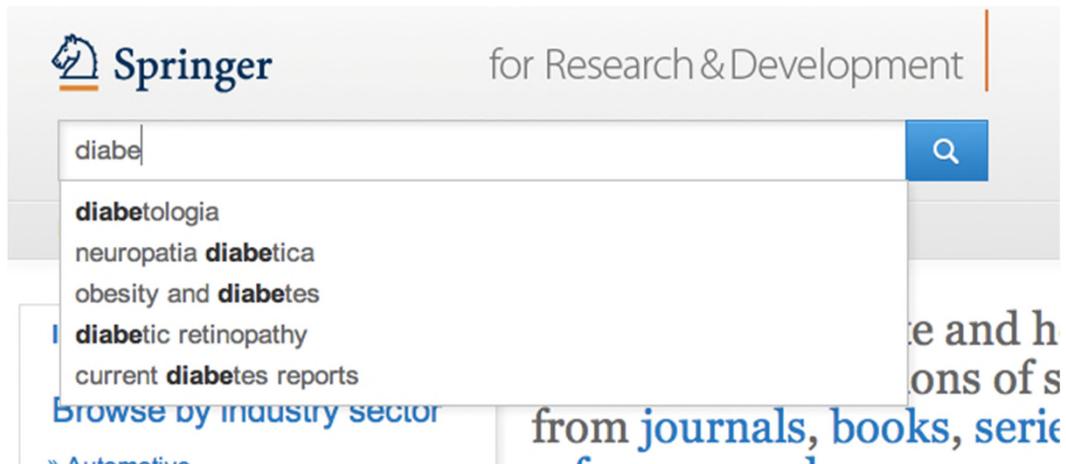
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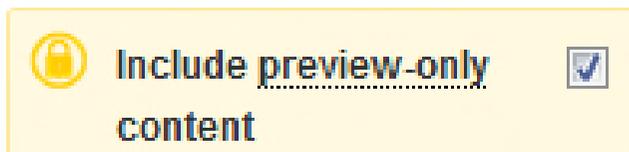
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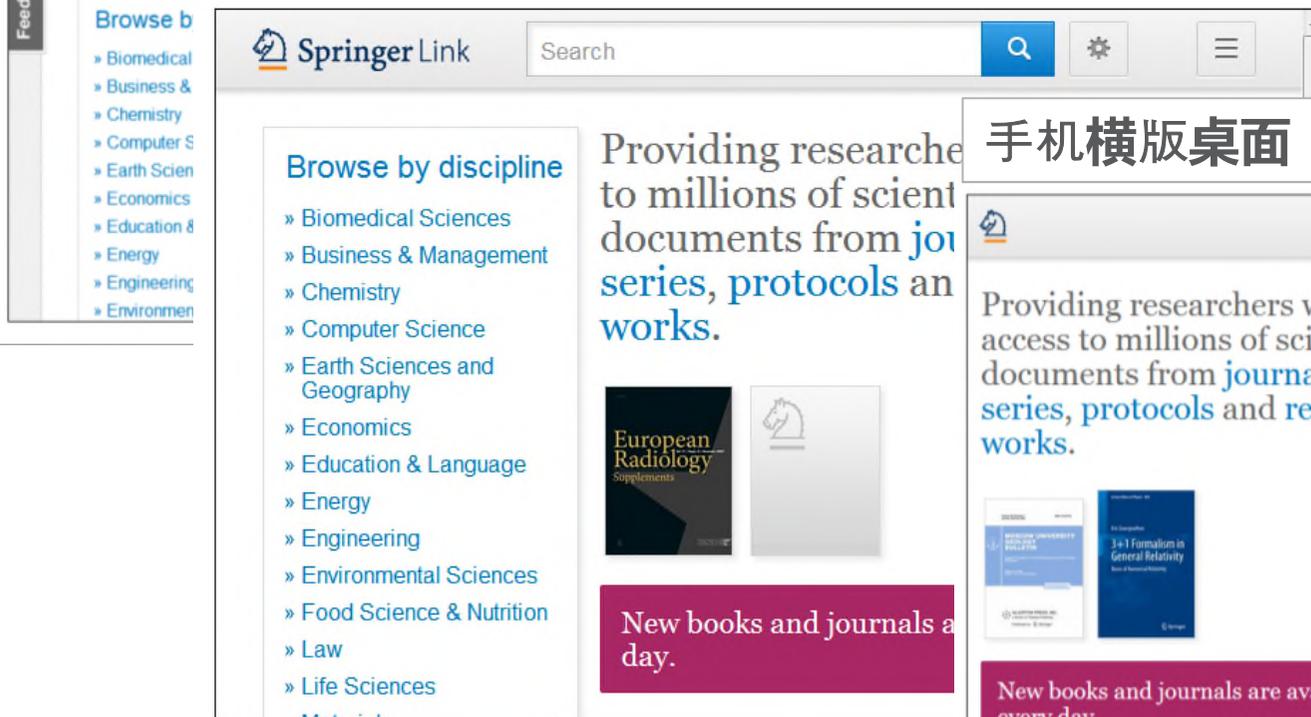
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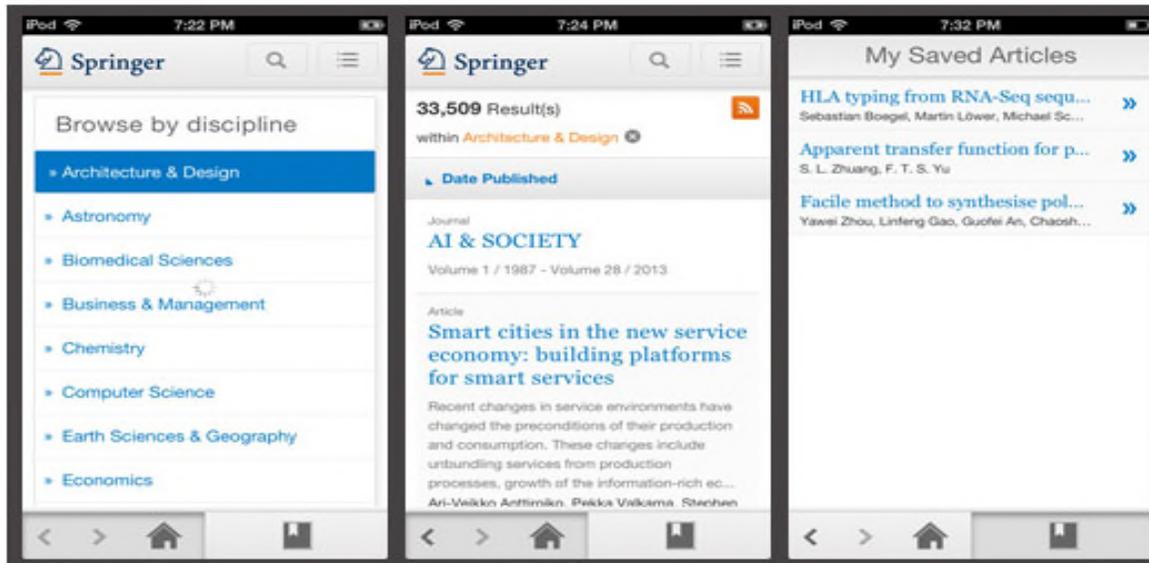
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Un quart des Européens aura plus de 65 ans d'ici 2030, et dans ce segment l'incidence des cancers augmente à 11 fois celle du sujet plus jeune. Pour mieux évaluer ces personnes sur le plan social et médical,...

M. Aapro, In: Cancer du sein (2007)

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Article

Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)

Tianwei Tan, Jian-He Xu in *Applied Biochemistry and Biotechnology* (2010)

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Chapter

Integrated Forest Biorefinery

Biorefining is an exciting concept for the pulp and paper industry, however in many ways, the industry has been considering its implementation for decades (Wising and Stuart 2006...). There have been many example...

Pratima Bajpai in *Biotechnology for Pulp and Paper Processing* (2012)

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Chapter

Biorefinery

A biorefinery is a facility that integrates biomass conversion processes and equipment to produce fuels, power, and value-added chemicals from biomass. The biorefinery concept is analogous to today's crude oil...

Biorefineries (2010)

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Synthesis of an integrated biorefinery via the C–H–O ternary diagram

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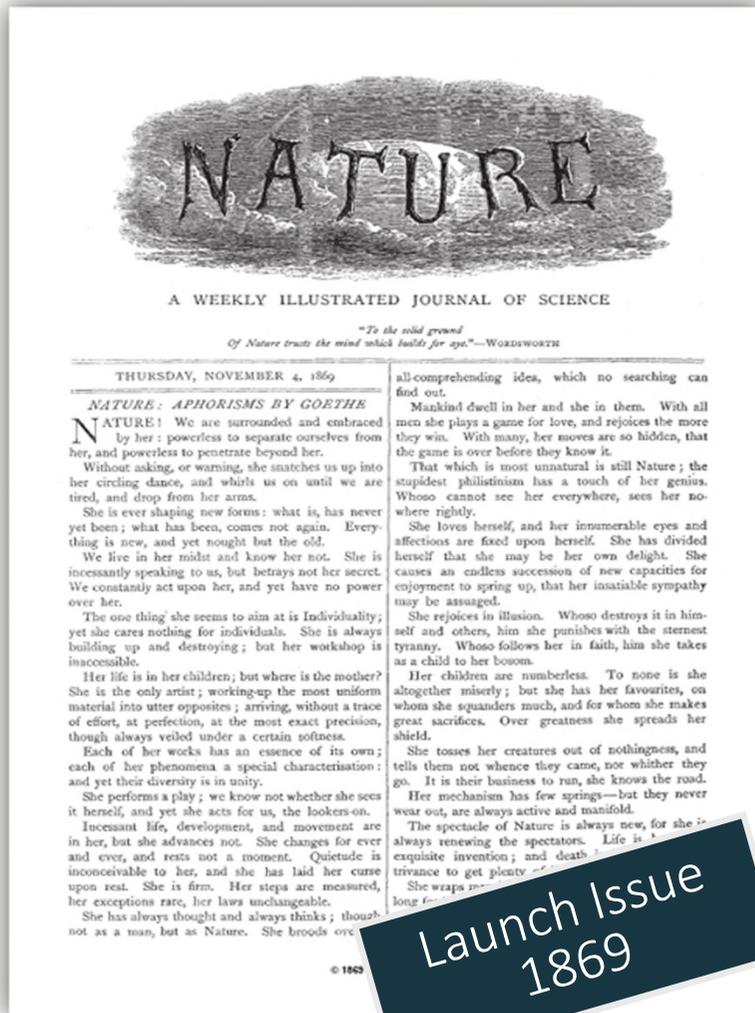


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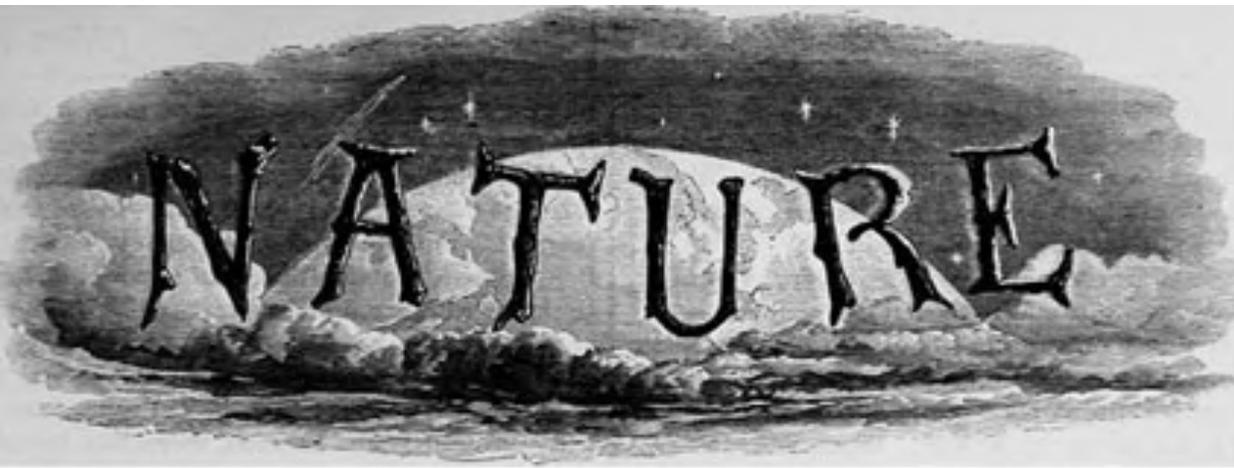
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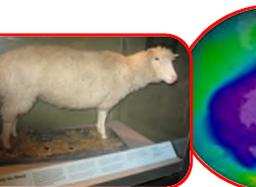
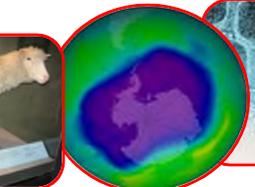
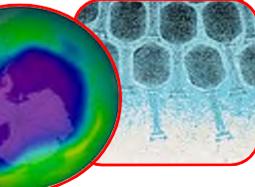
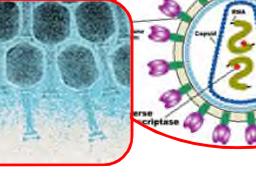
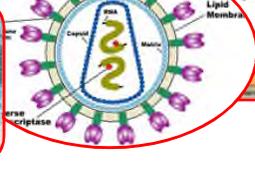
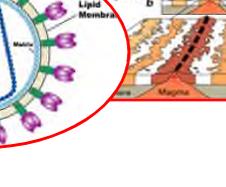
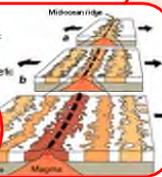
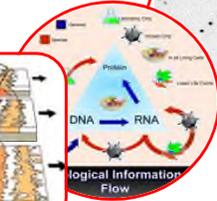
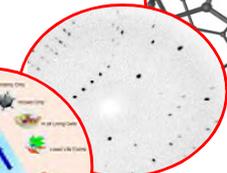
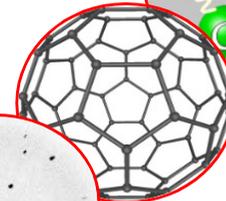
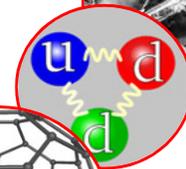
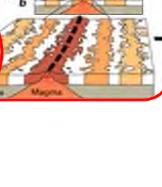
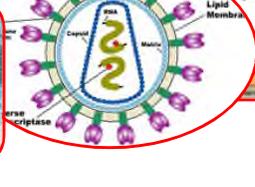
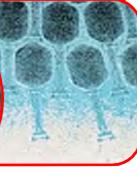
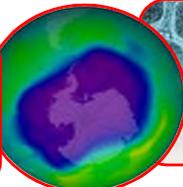
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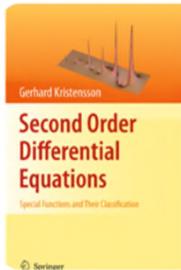
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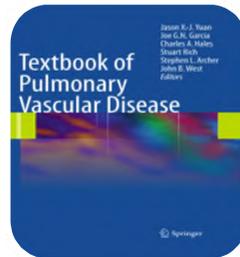
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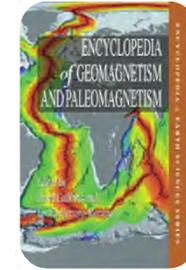
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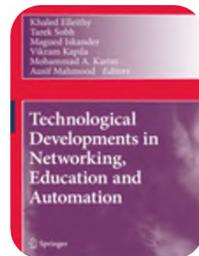
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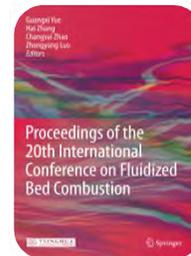
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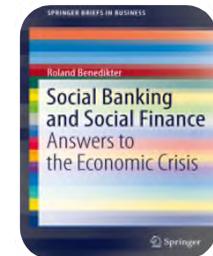
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An Anthropological Approach to Business Administration

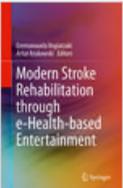
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Translational Systems Sciences
Volume 4 2016

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An Anthropological Approach to Business Administration

Editors: Hirochika Nakamaki, Koichiro Hioki, Izumi Mitsui, Yoshiyuki Takeuchi
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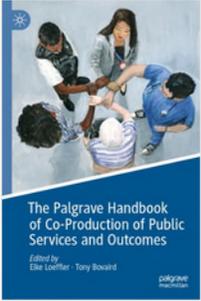
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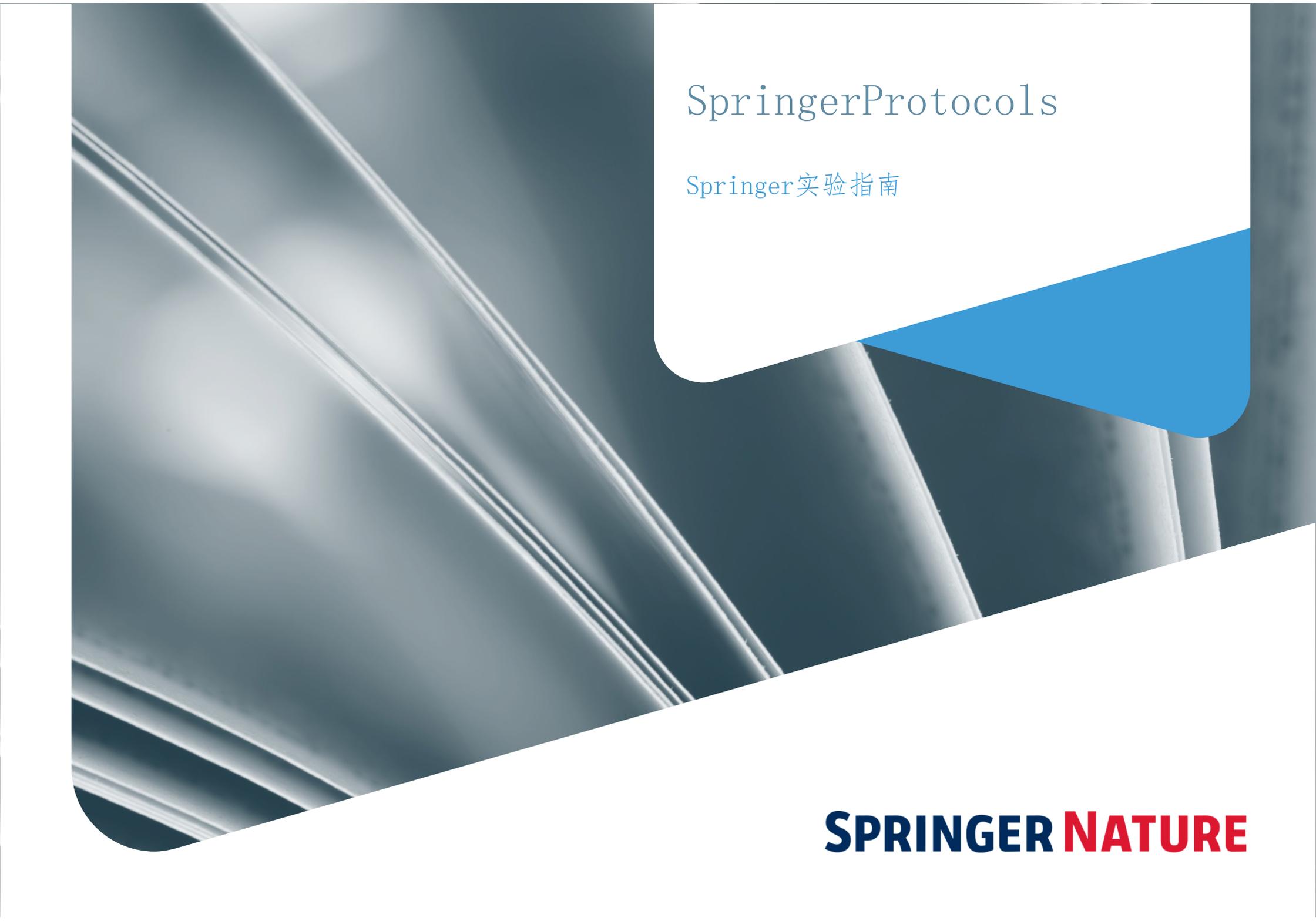
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Publication Year: 2007 2020

Technique: Search for technique

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Antibody BETA

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An RT-PCR Assay for Detection of Infectious Bronchitis Coronavirus Serotypes

Junfeng Sun, Shengwang Liu

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Techniques: Sequence Analysis, Freeze-thaw Method, Viral RNA Extraction, PCR, Reverse Transcription PCR... 1 more

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Chien Chang Loa, Ching Ching Wu, Tsang Long Lin

A multiplex polymerase chain reaction (PCR) method for differential detection of turkey coronavirus (TCov), infectious bronchitis virus (IBV), and bovine coronavirus (BCov) is presented in this chapter. Primers are designed from the conserved or ...more

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Biochemical Characterization of Middle East Respiratory Syndrome Coronavirus Spike Protein Proteolytic Processing

Authors: Gary R. Whittaker², Jean K. Millet^{1,2}
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Abstract

The coronavirus spike envelope glycoprotein is an essential viral component that mediates virus entry events. Biochemical assessment of the spike protein is critical for understanding structure–function relationships and the roles of the protein in the viral life cycle. Coronavirus spike proteins are typically proteolytically processed and activated by host cell enzymes such as trypsin-like proteases, cathepsins, or proprotein-convertases. Analysis of coronavirus spike proteins by western blot allows the visualization and assessment of proteolytic processing by endogenous or exogenous proteases. Here, we present a method based on western blot analysis to investigate spike protein proteolytic cleavage by transient transfection of HEK-293 T cells allowing expression of the spike protein of the highly pathogenic Middle East respiratory syndrome coronavirus in the presence or absence of a cellular trypsin-like transmembrane serine protease, matriptase. Such analysis enables the characterization of cleavage patterns produced by a host protease on a coronavirus spike glycoprotein. [less](#)

Figures (3) & Videos (0)

Fig. 1

Keywords

Techniques: Transfection, Western Blot, Radioimmunoprecipitation Assay, Cell And Tissue Culture, PAGE, Cell Lysis, Transient Transfection, Electrophoresis

Models: Bos taurus, Alphacoronavirus, Oryctolagus cuniculus, Middle East respiratory syndrome-related coronavirus, Mus (mouse)

Others: Virus entry, Spike protein, Proteolytic processing, Middle East respiratory syndrome (MERS), Host cell protease, Matriptase

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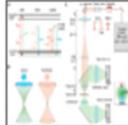
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Protein: Not specified

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Type: Secondary

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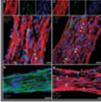
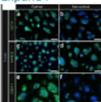
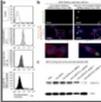
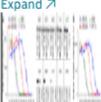
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| Immunostaining | Gallus gallus | 0.5% (vol/vol) | Invitrogen, cat. no. A21441 Invitrogen, cat. no. A 21422 | Alexa Fluor 488 Alexa Fluor 594 | Dulbecco's phosphate buffered saline DPBS |  | Mesoscopic hydrogel molding to control the 3D geometry of bioartificial muscle tissues |
| Immunolabeling | Capra hircus | Dilute 1:1,000 | Invitrogen, cat. no. A11034 | Alexa Fluor 488 | PBS without calcium and magnesium PBS with 1% (vol/vol) FBS |  | Derivation and characterization of mouse embryonic stem cells from permissive and nonpermissive strains |
| Fluorescence Cross-correlation Spectroscopy | Capra hircus | 25 µgml ⁻¹ | Molecular Probes/Invitrogen | Alexa488 Alexa633 | Antibody dilution buffer AD buffer; PBS, 0.1% bovine serum albumin |  | One-step analysis of protein complexes in microliters of cell lysate using indirect immunolabeling & fluorescence cross-correlation spectroscopy |
| Indirect immunolabeling | Capra hircus | 25 µgml ⁻¹ | Molecular Probes/Invitrogen | Alexa488 Alexa633 | Antibody dilution buffer AD buffer; PBS, 0.1% bovine serum albumin |  | One-step analysis of protein complexes in microliters of cell lysate using indirect immunolabeling & fluorescence cross-correlation spectroscopy |
| Western Blot | Capra hircus | | Jackson ImmunoResearch, cat. no. 111-036-045 | Peroxidase | |  | Antibody-coupled siRNA as an efficient method for in vivo mRNA knockdown |
| Western Blot | Bos taurus | 80 ng/ml | Santa Cruz Biotechnology, cat. no. sc-2374 | horseradish peroxidase HRP | blocking buffer |  | The cellular thermal shift assay for evaluating drug target interactions in cells |

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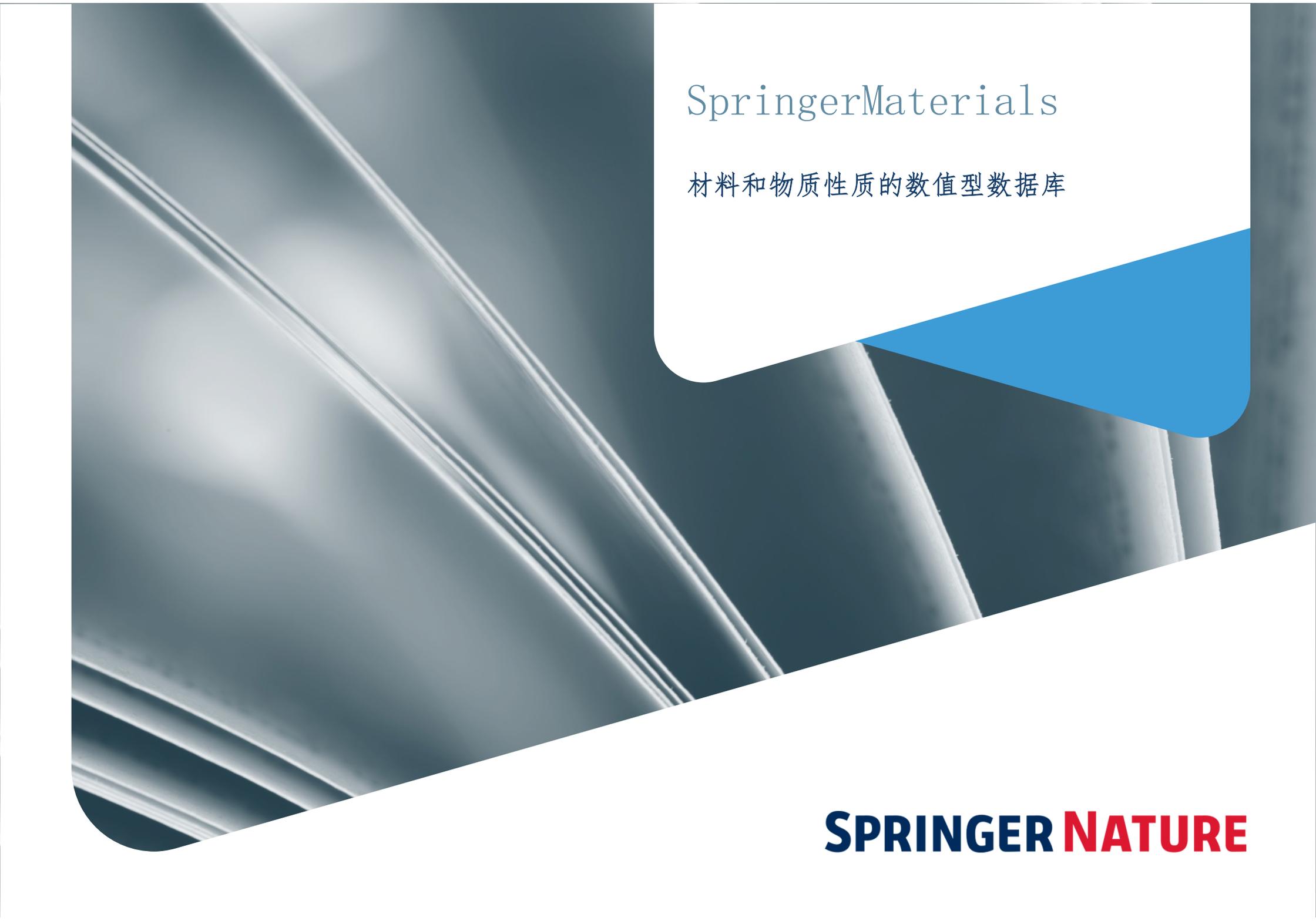
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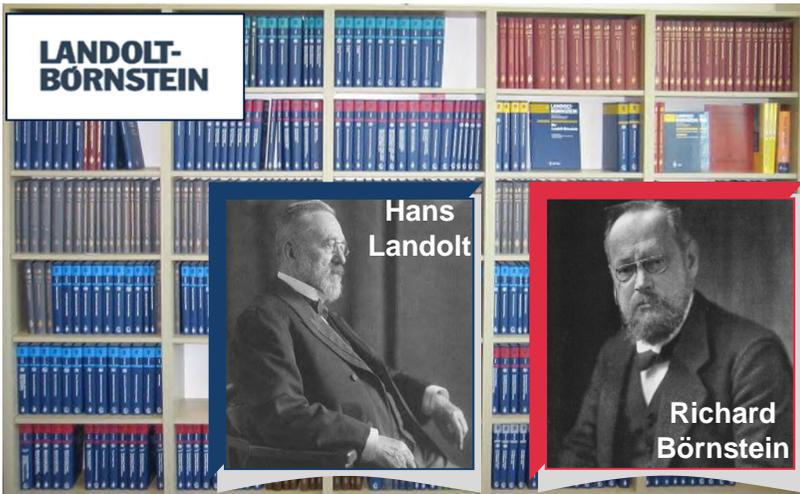
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3.0 Einleitung

[Lit. S. 275

3 Crystallographic and magnetic properties of perovskite and perovskite-related compounds*)

3.0 Introduction — Einleitung

3.0.1 General remarks — Allgemeines

The perovskites form a family of compounds having a crystal structure similar to that of the mineral perovskite, CaTiO_3 . There are two classes of materials crystallizing with this general structure type: primarily ionic materials having the ideal chemical formula ABX_3 (A = larger cation, B = smaller cation, X = anion), and alloys having the ideal formula $\text{M}^{\circ}\text{XM}_2^{\text{I}}$ (X = interstitial atom, M° and M^{I} are metal atoms). Of these two classes, the former is much larger and the more important.

The stability of the ABX_3 perovskite structure is primarily derived from the electrostatic (Madelung) energy achieved if cations occupy corner-shared octahedra. Thus the first prerequisite for a stable ABX_3 perovskite is the existence of stable, polar octahedral-site building blocks. This, in turn, requires that the B cation have a preference for octahedral coordination and that there be an effective charge on the B cation. Since any A cation must occupy the relatively large anionic interstice created by corner-shared octahedra, a second prerequisite is an appropriate size for the A cation. Where it is too large, the B-X bond length cannot be optimized, and hexagonal stacking with face-shared octahedra becomes competitive. Where the A cation is too small, A-X bonding stabilizes structures having a smaller anionic coordination about the A cation. Thus ABX_3 perovskites are commonly found in fluorides and oxides having B cations with a preference energy for octahedral coordination. By contrast, the chlorides and sulfides, having larger anions, not only require the largest A cations, but also form layer structures, where the A cations are missing, because they have anionic *d* orbitals energetically available for orbital hybridization.

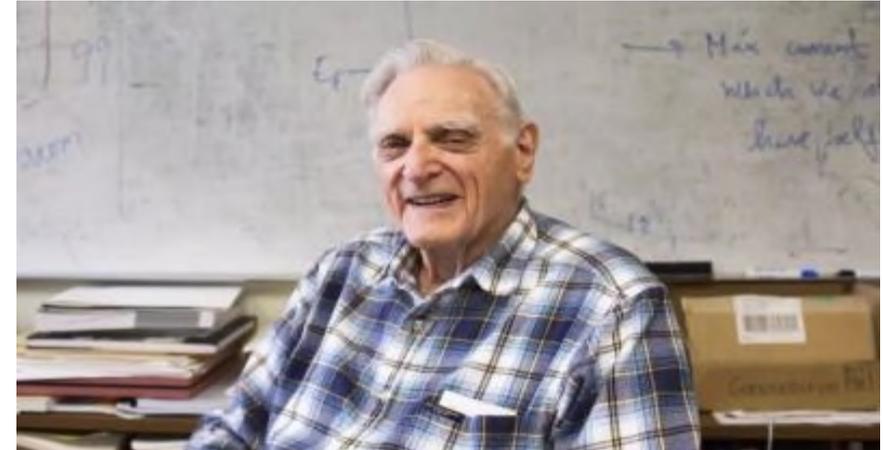
There are many perovskite-related structures, and these have been included in these tables. For example, the structure can tolerate mixed systems such as $\text{A}_{1-x}\text{A}'_x\text{BX}_3$ and $\text{AB}_{1-x}\text{B}'_x\text{X}_3$, A-cationic vacancies \square as in $\square_{1-x}\text{A}_x\text{BX}_3$, and cationic ordering as in $\text{A}_2\text{BB}'\text{X}_6$. Although anion-deficient perovskites have been reported many times, the anion vacancies \ominus are probably not distributed randomly. In compounds containing Fe^{2+} ions, for example, they appear to condense in pairs at individual B-site octahedra to convert the local anion interstice from an octahedron to a tetrahedron. In

*) This work was sponsored by the U. S. Air Force.

Die Perowskite sind eine Gruppe von Verbindungen mit der gleichen Kristallstruktur wie das Mineral Perowskit, CaTiO_3 . Man unterscheidet zwei Klassen von Substanzen, die in diesem allgemeinen Strukturtyp kristallisieren: in erster Linie Ionenverbindungen mit der idealen chemischen Formel ABX_3 (A = größeres Kation, B = kleineres Kation, X = Anion) und Legierungen mit der idealen Formel $\text{M}^{\circ}\text{XM}_2^{\text{I}}$ (X = Zwischengitteratom, M° und M^{I} = Metallatome). Von diesen beiden Klassen ist die erstere wesentlich umfangreicher und wichtiger.

Die Stabilität der ABX_3 -Perowskitstruktur beruht in erster Linie auf der elektrostatischen (Madelung-) Energie, die dann zustande kommt, wenn Kationen Oktaeder mit gemeinsamen Ecken besetzen. So ist die Existenz von stabilen, polaren Oktaeder-Bausteinen die erste Vorbedingung für ein stabiles ABX_3 -Perowskit. Dies wiederum erfordert, daß das B-Kation die Oktaeder-Koordination bevorzugt und daß beim B-Kation eine effektive Ladung existiert. Da ein jedes A-Kation die relativ große Anionen-Lücke besetzen muß, die zwischen Oktaedern mit gemeinsamen Ecken entsteht, ist die passende Größe des A-Kations die zweite Vorbedingung. Wenn das A-Kation zu groß ist, läßt sich der optimale B-X-Bindungsabstand nicht erreichen, und eine hexagonale Packung von Oktaedern mit gemeinsamen Flächen kann ebenso auftreten. Wenn das A-Kation zu klein ist, ergibt die A-X-Bindung Strukturen mit einer kleineren Anionen-Koordination um das A-Kation. Daher sind ABX_3 -Perowskite gewöhnlich unter den Fluoriden und Oxiden zu finden, in denen die B-Kationen Oktaeder-Koordination energetisch bevorzugen. Dagegen erfordern Chloride und Sulfide, die größere Anionen haben, nicht nur die größten A-Kationen, sondern sie bilden, weil sie anionische *d*-Elektronenbahnen mit der richtigen Energie für eine *d*-Bahn-Hybridisierung haben, auch Schichtstrukturen, bei denen die A-Kationen ganz fehlen.

Es gibt viele dem Perowskit verwandte Strukturen, die in diese Tabellen aufgenommen wurden. Zum Beispiel können gemischte Systeme wie $\text{A}_{1-x}\text{A}'_x\text{BX}_3$ und $\text{AB}_{1-x}\text{B}'_x\text{X}_3$ mit dieser Struktur auftreten, weiter A-Kationenlücken \square wie in $\square_{1-x}\text{A}_x\text{BX}_3$ und geordnete Kationen wie in $\text{A}_2\text{BB}'\text{X}_6$. Über Perowskite mit Anionenlücken ist schon häufig berichtet worden, vermutlich sind die Anionenlücken \ominus nicht willkürlich verteilt. In Verbindungen, die Fe^{2+} -Ionen enthalten, scheinen sie z. B. paarweise im Oktaeder eines einzelnen B-Platzes zusammenzutreffen und die



John B. Goodenough , 2019 Nobel Prize

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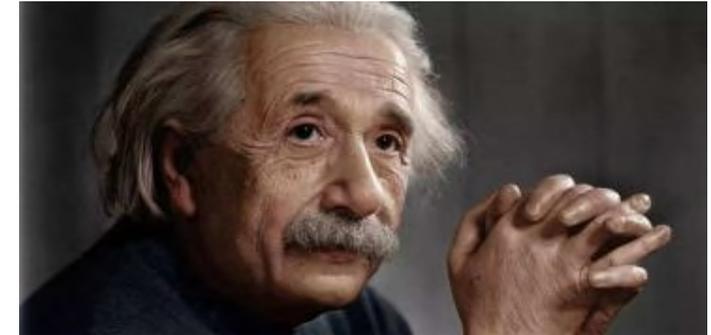
ANNALEN DER PHYSIK.

9. Die Plancksche Theorie der Strahlung und die Theorie der spezifischen Wärme; von **A. Einstein.**

In zwei früheren Arbeiten¹⁾ habe ich gezeigt, daß die Interpretation des Energieverteilungsgesetzes der schwarzen Strahlung im Sinne der Boltzmannschen Theorie des zweiten Hauptsatzes uns zu einer neuen Auffassung der Phänomene der Lichtemission und Lichtabsorption führt, die zwar noch keineswegs den Charakter einer vollständigen Theorie besitzt, die aber insofern bemerkenswert ist, als sie das Verständnis einer Reihe von Gesetzmäßigkeiten erleichtert. In der vorliegenden Arbeit soll nun dargetan werden, daß die Theorie der Strahlung — und zwar speziell die Plancksche Theorie — zu einer Modifikation der molekular-kinetischen Theorie der Wärme führt, durch welche einige Schwierigkeiten beseitigt werden, die bisher der Durchführung jener Theorie im Wege standen. Auch wird sich ein gewisser Zusammenhang zwischen dem thermischen und optischen Verhalten fester Körper ergeben.

Bern, November 1906.

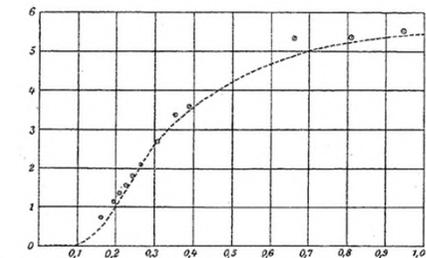
(Eingegangen 9. November 1906.)



Wir entnehmen ferner den Tabellen von Landolt und Börnstein einige Angaben über ultrarote Eigenschwingungen (metallische Reflexion, Reststrahlen) einiger durchsichtiger fester Körper; die beobachteten λ sind in nachstehender Tabelle unter „ $\lambda_{\text{beob.}}$ “ angegeben; die Zahlen unter „ $\lambda_{\text{ber.}}$ “ sind obiger Tabelle entnommen, soweit sie sich auf Atome von abnorm kleiner spezifischer Wärme beziehen; für die übrigen soll $\lambda > 48 \mu$ sein.

| Körper | $\lambda_{\text{beob.}}$ | $\lambda_{\text{ber.}}$ |
|-------------------|--------------------------|-------------------------|
| CaF ₂ | 24, 31, 6 | 33, > 48 |
| NaCl | 5 | |
| KCl | 6 | |
| CaCO ₃ | 6,7; 1 | |
| SiO ₂ | 8,5; 9 | |

190 A. Einstein. Plancksche Theorie der Strahlung etc.



betreffenden festen Stoffe vorkommen, für die spezifische Wärme pro Grammäquivalent den Ausdruck¹⁾

$$(8a) \quad c = 5,94 \sum \frac{e^{\frac{\beta\nu}{T}} \left(\frac{\beta\nu}{T}\right)^3}{\left(e^{\frac{\beta\nu}{T}} - 1\right)^2}.$$

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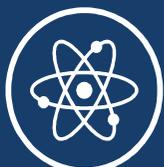
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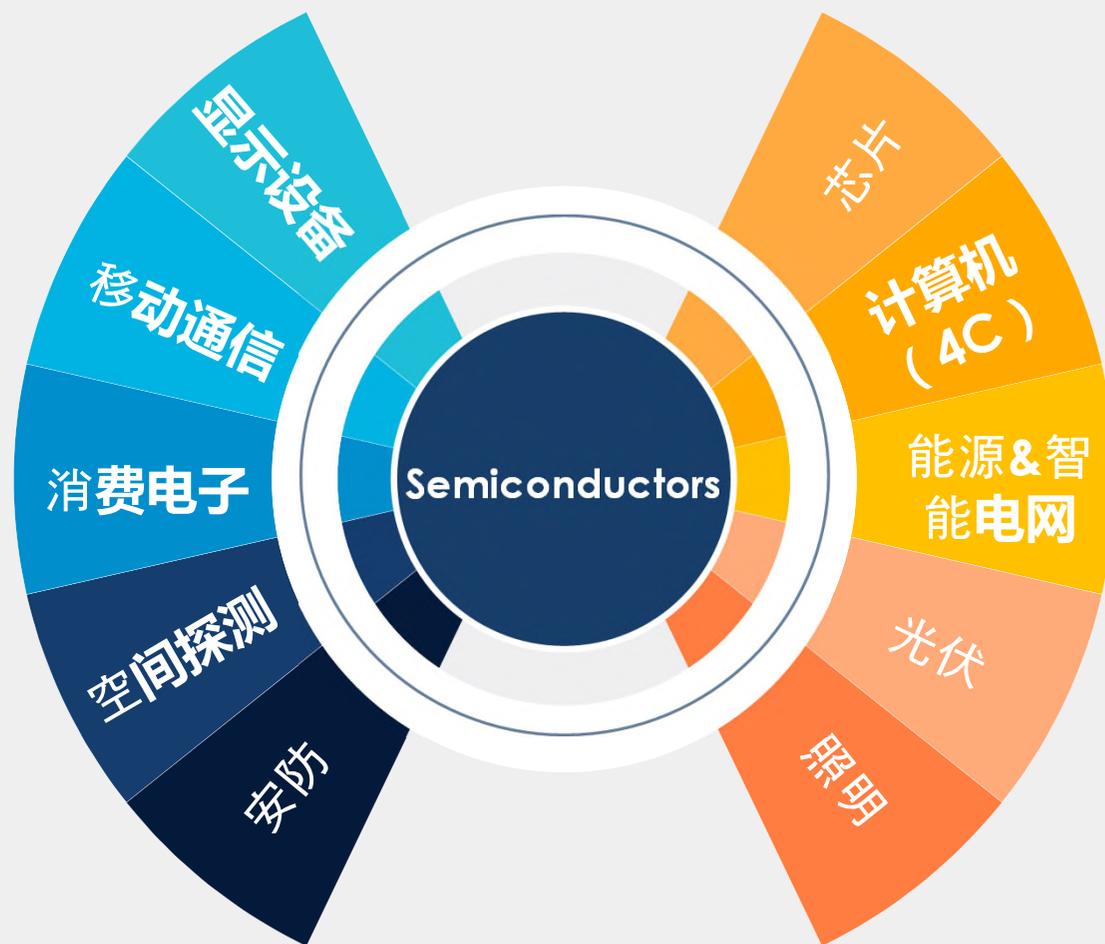


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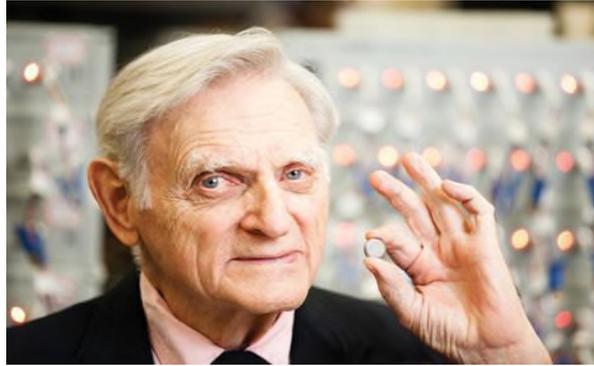


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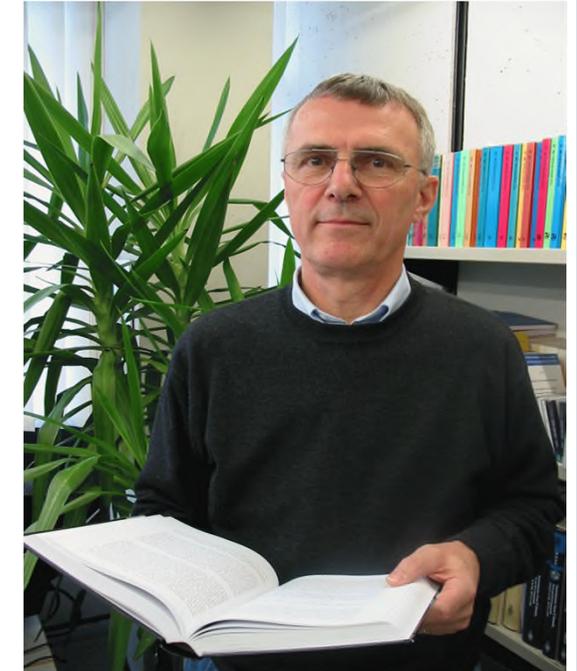
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