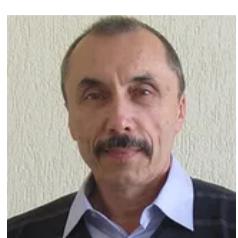


World's Best Scientists 2025 revealed!

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Victor V. Atuchin

Kemerovo State University
Russian Federation

**D-Index & Metrics**

Discipline name	D-Index	World Ranking	Current World Ranking	National Ranking	Current National Ranking	Publications	Citations
Chemistry	69	5576	5079	10	10	296	14026

Research.com Recognitions

2025 - Research.com Chemistry in Russian Federation Leader Award

2022 - Research.com Chemistry in Russian Federation Leader Award

Overview**What is he best known for?****The fields of study he is best known for:**

Optics
Semiconductor
Crystal structure

Victor V. Atuchin spends much of his time researching Analytical chemistry, Crystal structure, Luminescence, Phosphor and Photoluminescence. His research in Analytical chemistry intersects with topics in Amorphous solid, Thin film and Diffraction. His Crystal structure study is associated with Crystallography.

Victor V. Atuchin interconnects Europium and Binding energy in the investigation of issues within Crystallography. His biological study spans a wide range of topics, including Solid solution, Optics, Diode, Photon upconversion and Mineralogy. His studies in Photoluminescence integrate themes in fields like Color temperature, Doping and Isostructural.

Frequent Co-Authors

Maxim S. Molokeev
Siberian Federal University



Zhiguo Xia
University of Science and Technology Beijing



Chintalapalle V. Ramana
The University of Texas at El Paso



Zheshuai Lin
Chinese Academy of Sciences



Zhaohui Huang
China University of Geosciences



Xingxing Jiang
Chinese Academy of Sciences



An.V. Trukhanov
South Ural State University



Ru-Shi Liu
National Taiwan University

His most cited work include:

Structural and Luminescence Properties of Yellow-Emitting NaScSi₂O₆:Eu²⁺ Phosphors: Eu²⁺ Site Preference Analysis and Generation of Red Emission by Codoping Mn²⁺ for White-Light-Emitting Diode Applications (257 citations)
 Ti 2p and O 1s core levels and chemical bonding in titanium-bearing oxides (223 citations)
 New Yellow-Emitting Whitlockite-type Structure
 Sr_{1.75}Ca_{1.25}(PO₄)₂:Eu²⁺ Phosphor for Near-UV Pumped White Light-Emitting Devices (173 citations)

**S. V. Trukhanov**

Scientific Practical Materials Research Centre

**Udo Becker**

University of Michigan-Ann Arbor

What are the main themes of his work throughout his whole career to date?

Analytical chemistry, Crystallography, Crystal structure, X-ray photoelectron spectroscopy and Crystal are his primary areas of study. His work deals with themes such as Doping and Reflection high-energy electron diffraction, which intersect with Analytical chemistry. His Crystallography research incorporates themes from X-ray crystallography, Inorganic chemistry and Infrared spectroscopy.

His work carried out in the field of Crystal structure brings together such families of science as Luminescence, Molybdate and Solid solution. His studies deal with areas such as Crystal growth, Electronic structure and Binding energy as well as X-ray photoelectron spectroscopy. His Crystal study combines topics in areas such as Optics, Refractive index and Chemical composition.

He most often published in these fields:

Analytical chemistry (52.45%)
 Crystallography (44.67%)
 Crystal structure (44.96%)

What were the highlights of his more recent work (between 2017-2021)?

Crystal structure (44.96%)
 Analytical chemistry (52.45%)
 Raman spectroscopy (19.31%)

In recent papers he was focusing on the following fields of study:

Victor V. Atuchin mostly deals with Crystal structure, Analytical chemistry, Raman spectroscopy, Crystallography and Optoelectronics. His Crystal structure research integrates issues from Luminescence, Crystal growth and Chemical engineering. The various areas that Victor V. Atuchin examines in his Luminescence study include Atmospheric temperature range and Infrared spectroscopy.

His work on Phosphor and Photon upconversion as part of general Analytical chemistry study is frequently linked to Range, therefore connecting diverse disciplines of science. His Phosphor research is multidisciplinary, incorporating elements of Doping and Chromaticity. The Raman spectroscopy study combines topics in areas such as Orthorhombic crystal system and Photoluminescence.

Between 2017 and 2021, his most popular works were:

Structural and spectroscopic properties of new noncentrosymmetric self-activated borate Rb₃EuB₆O₁₂ with B₅O₁₀ units (80 citations)
 Structural and spectroscopic properties of new noncentrosymmetric self-activated borate Rb₃EuB₆O₁₂ with B₅O₁₀ units (80 citations)
 Electromagnetic properties of BaFe₁₂O₁₉:Ti at centimeter wavelengths (58 citations)

In his most recent research, the most cited papers focused on:

Semiconductor

Optics

Photon

His primary areas of study are Crystal structure, Luminescence, Crystallography, Rietveld refinement and Infrared spectroscopy.

His work on Triclinic crystal system as part of general Crystal structure research is frequently linked to Monte Carlo method, thereby connecting diverse disciplines of science. The study incorporates disciplines such as Atmospheric temperature range, Redox, Europium sulfide and Enthalpy in addition to Luminescence.

His Crystallography research is multidisciplinary, incorporating elements of Raman spectroscopy, Second-harmonic generation and Photoluminescence. His research investigates the connection between Raman spectroscopy and topics such as Tetragonal crystal system that intersect with issues in Analytical chemistry. His biological study focuses on X-ray photoelectron spectroscopy.

Best Publications

Ti 2p and O 1s core levels and chemical bonding in titanium-bearing oxides 423 Citations

Victor V. Atuchin;Valery G. Kesler;Natalia V. Pervukhina;Zhaoming Zhang

Structural and Luminescence Properties of Yellow-Emitting NaScSi₂O₆:Eu²⁺ Phosphors: Eu²⁺ Site 383 Citations

Preference Analysis and Generation of Red Emission by Codoping Mn²⁺ for White-Light-Emitting Diode Applications

Zhiguo Xia;Yuanyuan Zhang;Maxim S. Molokeev;Victor V. Atuchin

Crystal chemistry and luminescence properties of red-emitting CsGd_{1-x}Eux(MoO₄)₂ solid-solution phosphors. 318 Citations

Pinglu Shi;Zhiguo Xia;Zhiguo Xia;Maxim S. Molokeev;Victor V. Atuchin;Victor V. Atuchin

Nb 3d and O 1s core levels and chemical bonding in niobates 294 Citations

V.V. Atuchin;I.E. Kalabin;V.G. Kesler;N.V. Pervukhina

Structure evolution and photoluminescence of Lu₃(Al,Mg)₂(Al,Si)₃O₁₂:Ce³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting 290 Citations

Haipeng Ji;Haipeng Ji;Le Wang;Maxim Molokeev;Naoto Hirosaki

New Yellow-Emitting Whitlockite-type Structure Sr_{1.75}Ca_{1.25}(PO₄)₂:Eu²⁺ Phosphor for Near-UV Pumped White Light-Emitting Devices 261 Citations

Haipeng Ji;Zhaohui Huang;Zhiguo Xia;Zhiguo Xia;Maxim S. Molokeev

Photoluminescence Tuning via Cation Substitution in Oxonitridosilicate Phosphors: DFT Calculations, Different Site Occupations, and Luminescence Mechanisms 258 Citations

Guogang Li;Guogang Li;Chun Che Lin;Wei Ting Chen;Maxim S. Molokeev

Synthesis and Spectroscopic Properties of Monoclinic α-Eu₂(MoO₄)₃ 252 Citations

V. V. Atuchin;V. V. Atuchin;A. S. Aleksandrovsky;O. D. Chimitova;T. A. Gavrilova

Linear structural evolution induced tunable photoluminescence in clinopyroxene solid-solution phosphors	239	Citations
Zhiguo Xia;Yuanyuan Zhang;Maxim S. Molokeev;Victor V. Atuchin		
Pressure-stimulated synthesis and luminescence properties of microcrystalline (Lu,Y)3Al5O12:Ce³⁺ garnet phosphors	229	Citations
Victor V. Atuchin;Victor V. Atuchin;Victor V. Atuchin;Nina F. Beisel;Nina F. Beisel;Eugeniy N. Galashov;Egor M. Mandrik		
Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba₃Eu(PO₄)₃ and Sr₃Eu(PO₄)₃.	224	Citations
Haipeng Ji;Zhaohui Huang;Zhiguo Xia;Maxim S. Molokeev		
Blue-shift of Eu²⁺ emission in (Ba,Sr)3Lu(PO₄)₃:Eu²⁺ eulytite solid-solution phosphors resulting from release of neighbouring-cation-induced stress	202	Citations
Ziyuan Wang;Zhiguo Xia;Zhiguo Xia;Maxim S. Molokeev;Victor V. Atuchin;Victor V. Atuchin		
Discovery of New Solid Solution Phosphors via Cation Substitution-Dependent Phase Transition in M₃(PO₄)₂:Eu²⁺ (M = Ca/Sr/Ba) Quasi-Binary Sets	201	Citations
Haipeng Ji;Zhaohui Huang;Zhiguo Xia;Maxim S. Molokeev		
Structure, morphology and optical properties of nanocrystalline yttrium oxide (Y₂O₃) thin films	199	Citations
V.H. Mudavakkat;V.V. Atuchin;V.N. Kruchinin;A. Kayani		
Structural and spectroscopic properties of new noncentrosymmetric self-activated borate Rb₃EuB₆O₁₂ with B₅O₁₀ units	176	Citations
V.V. Atuchin;V.V. Atuchin;A.K. Subanakov;A.S. Aleksandrovsky;B.G. Bazarov		
Structural and Electronic Properties of ZnWO₄(O₁₀) Cleaved Surface	173	Citations
Victor V. Atuchin;Evgeny N. Galashov;Oleg Yu. Khyzhun;Anton S. Kozhukhov;Anton S. Kozhukhov		
Microwave sol-gel synthesis and upconversion photoluminescence properties of CaGd₂(WO₄)₄:Er³⁺/Yb³⁺ phosphors with incommensurately modulated structure	172	Citations
Chang Sung Lim;Aleksandr Aleksandrovsky;Maxim Molokeev;Aleksandr Oreshonkov		
Growth and surface characterization of sputter-deposited molybdenum oxide thin films	169	Citations
C.V. Ramana;V.V. Atuchin;V.G. Kesler;V.A. Kochubey		
Morphology and structure of hexagonal MoO₃ nanorods	168	Citations
V. V. Atuchin;T. A. Gavrilova;V. G. Kostrovsky;L. D. Pokrovsky		
X-ray Photoelectron Spectroscopy Depth Profiling of La₂O₃/Si Thin Films Deposited by Reactive Magnetron Sputtering	155	Citations
C. V. Ramana;R. S. Vemuri;V. V. Kaichev;V. A. Kochubey		

If you think any of the details on this page are incorrect, let us know.

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Best Scientists Citing Victor V. Atuchin



Maxim S. Molokeev
Siberian Federal University
Publications: 81



Zhiguo Xia
University of Science and Technology Beijing
Publications: 66



Jun Lin
Chinese Academy of Sciences
Publications: 47



Quanlin Liu
University of Science and Technology Beijing
Publications: 39

Trending Scientists



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