

# Valery V Petrykin

## List of Publications by Year in descending order

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82  
papers

2,360  
citations

218677

26  
h-index

214800

47  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2727  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of BaSnO <sub>3</sub> artificial pinning centres on the resistive transition of 2G high-temperature superconductor wire in magnetic field. Superconductor Science and Technology, 2020, 33, 045003.	3.5	4
2	Microstructures of superconducting joint between GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> -coated conductors via additionally deposited precursor films. Japanese Journal of Applied Physics, 2019, 58, 050913.	1.5	6
3	Influence of joint pressure on superconducting and mechanical properties for jointed GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> coated conductors via precursor films. Japanese Journal of Applied Physics, 2019, 58, 050907.	1.5	2
4	Chemistry and Applications of Polymeric Gel Precursors. , 2018, , 81-112.		0
5	Inkjet Printing Multideposited YBCO on CGO/LMO/MgO/Y <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /Hastelloy Tape for 2G-Coated Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	6
6	Spark-Discharge Plasma as a Method to Produce Low AC Loss Multifilamentary (RE)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Coated Conductors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	1
7	Pinning Properties of PLD-Obtained GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Coated Conductors Doped With BaSnO <sub>3</sub> . IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	9
8	Introduction of BaSnO <sub>3</sub> and BaZrO <sub>3</sub> artificial pinning centres into 2G HTS wires based on PLD-GdBCO films. Phase I of the industrial R&D programme at SuperOx. Superconductor Science and Technology, 2017, 30, 124001.	3.5	36
9	Chemistry and Applications of Polymeric Gel Precursors. , 2017, , 1-32.		1
10	Selective Chlorine Evolution Catalysts Based on Mg-Doped Nanoparticulate Ruthenium Dioxide. Journal of the Electrochemical Society, 2015, 162, H23-H31.	2.9	32
11	Oxygen reduction on nanocrystalline ruthenia – local structure effects. RSC Advances, 2015, 5, 1235-1243.	3.6	24
12	Selectivity of Nanocrystalline IrO <sub>2</sub> -Based Catalysts in Parallel Chlorine and Oxygen Evolution. Electrocatalysis, 2015, 6, 198-210.	3.0	48
13	Insights into a selective synthesis of anatase, rutile, and brookite-type titanium dioxides by a hydrothermal treatment of titanium complexes. Journal of Materials Research, 2014, 29, 90-97.	2.6	12
14	Beyond the volcano limitations in electrocatalysis – oxygen evolution reaction. Physical Chemistry Chemical Physics, 2014, 16, 13682-13688.	2.8	292
15	Topologically Sensitive Surface Segregations of Au–Pd Alloys in Electrocatalytic Hydrogen Evolution. ChemElectroChem, 2014, 1, 207-212.	3.4	12
16	Local structure of Co doped RuO <sub>2</sub> nanocrystalline electrocatalytic materials for chlorine and oxygen evolution. Catalysis Today, 2013, 202, 63-69.	4.4	73
17	Surface Stability of Pt <sub>3</sub> Ni Nanoparticulate Alloy Electrocatalysts in Hydrogen Adsorption. Langmuir, 2013, 29, 9046-9050.	3.5	17
18	Synthesis of high-purity YbBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> and LuBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> superconductors by polymerizable complex method. Journal of the Ceramic Society of Japan, 2012, 120, 503-508.	1.1	2

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19	Local Structure of Pulse Plated Ni Rich Ni-Zn Alloys and Its Effect on the Electrocatalytic Activity in the Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2012, 159, D555-D562.	2.9	10
20	Zn-Doped RuO <sub>2</sub> electrocatalysts for Selective Oxygen Evolution: Relationship between Local Structure and Electrocatalytic Behavior in Chloride Containing Media. Chemistry of Materials, 2011, 23, 200-207.	6.7	62
21	Hydrothermal synthesis of brookite-type titanium dioxide with snowflake-like nanostructures using a water-soluble citratoperoxotitanate complex. Journal of Crystal Growth, 2011, 337, 30-37.	1.5	36
22	Synthesis of Y <sub>2</sub> O <sub>3</sub> :Eu phosphor with various particles morphologies by solvothermal reaction in methanol-water system. Journal of the Ceramic Society of Japan, 2011, 119, 445-450.	1.1	1
23	Application of Water-Soluble Titanium Complexes as Precursors for Synthesis of Titanium-Containing Oxides via Aqueous Solution Processes. Bulletin of the Chemical Society of Japan, 2010, 83, 1285-1308.	3.2	111
24	Synthesis of Ba <sub>3</sub> Ta <sub>6</sub> Si <sub>4</sub> O <sub>26</sub> using Aqueous Solution Processes and Its Photocatalytic Activity. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2010, 57, 701-705.	0.2	6
25	Sr <sub>2</sub> ZnS <sub>3</sub> : Crystal Structure and Fluorescent Properties of a New Eu(II)-Activated Yellow Emission Phosphor. Chemistry of Materials, 2010, 22, 5800-5802.	6.7	13
26	Synthesis and luminescence properties of a Cyan-blue thiosilicate-based Phosphor SrSi <sub>2</sub> S <sub>5</sub> :Eu <sup>2+</sup> . Journal of Information Display, 2010, 11, 135-139.	4.0	6
27	Selective Synthesis of TiO <sub>2</sub> Polymorphs by Hydrothermal Method using New Water-Soluble Titanium Complexes. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 188-193.	0.2	5
28	Synthesis of Multicomponent Sulfide Phosphors from Uniform Precursors Prepared by Solution Methods. ECS Transactions, 2009, 25, 51-54.	0.5	0
29	Rapid synthesis of nitrogen doped titania with mixed crystal lattice via microwave-assisted hydrothermal method. Materials Chemistry and Physics, 2009, 116, 269-272.	4.0	28
30	Hydrothermal Synthesis and Photocatalytic Activity of Whisker-like Rutile-type Titanium Dioxide. Journal of the American Ceramic Society, 2009, 92, S21.	3.8	46
31	Methanol-Water System for Solvothermal Synthesis of YVO <sub>4</sub> :Eu with High Photoluminescent Intensity. Journal of the American Ceramic Society, 2009, 92, S16-S20.	3.8	12
32	Synthesis of BaAl <sub>2</sub> S <sub>4</sub> :Eu <sup>2+</sup> Electroluminescent Material by the Polymerizable Complex Method Combined with CS <sub>2</sub> Sulfurization. Journal of the American Ceramic Society, 2009, 92, S27.	3.8	13
33	Preparation of high performance fibrous titania photocatalysts by the solvothermal reaction of protonated form of tetratitanate. Journal of Molecular Catalysis A, 2009, 309, 50-56.	4.8	14
34	Synthesis of TiO <sub>2</sub> (B) using glycolato titanium complex and post-synthetic hydrothermal crystal growth of TiO <sub>2</sub> (B). Journal of Crystal Growth, 2009, 311, 619-622.	1.5	23
35	Synthesis and effect of Sr substitution on fluorescence of new Ba <sub>2-x</sub> Sr <sub>x</sub> ZnS <sub>3</sub> : Eu <sup>2+</sup> red phosphor: Considerable enhancement of emission intensity. Journal of Crystal Growth, 2009, 311, 647-650.	1.5	12
36	Local Structure of Nanocrystalline Ru <sup>1+</sup> Ni <sup>1+</sup> O <sub>2</sub> Dioxide and Its Implications for Electrocatalytic Behavior—An XPS and XAS Study. Journal of Physical Chemistry C, 2009, 113, 21657-21666.	3.1	45



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55	One-Step Synthesis of TiO <sub>2</sub> (B) Nanoparticles from a Water-Soluble Titanium Complex. Chemistry of Materials, 2007, 19, 5373-5376.	6.7	122
56	Hydrothermal Synthesis of Nanosized Titania Photocatalysts Using Novel Water-Soluble Titanium Complexes. Solid State Phenomena, 2007, 124-126, 723-726.	0.3	17
57	Synthesis of High-Brightness Sub-micrometer Y <sub>2</sub> O <sub>3</sub> Red Phosphor Powders by Complex Homogeneous Precipitation Method. Chemistry of Materials, 2006, 18, 6303-6307.	6.7	44
58	Synthesis and Structure of New Water-Soluble and Stable Tantalum Compound: Ammonium Tetralactatodiperoxo-1/4-oxo-ditantalate(V). Inorganic Chemistry, 2006, 45, 9251-9256.	4.0	38
59	A Water-Soluble Titanium Complex for the Selective Synthesis of Nanocrystalline Brookite, Rutile, and Anatase by a Hydrothermal Method. Angewandte Chemie - International Edition, 2006, 45, 2378-2381.	13.8	224
60	Photocatalytic Conversion of NO on AgCl/Al <sub>2</sub> O <sub>3</sub> Mixed with ZSM-5. Journal of the Ceramic Society of Japan, 2005, 113, 509-512.	1.3	3
61	Flux-assisted reactive solid phase epitaxy of highly c-axis oriented Ru(Eu <sub>1.5</sub> Ce <sub>0.5</sub> )Sr <sub>2</sub> Cu <sub>2</sub> O <sub>10</sub> thin films. Physica C: Superconductivity and Its Applications, 2005, 422, 46-50.	1.2	1
62	c-Axis oriented epitaxial Ru(Eu <sub>1.5</sub> Ce <sub>0.5</sub> )Sr <sub>2</sub> Cu <sub>2</sub> O <sub>10</sub> thin films grown by flux-mediated solid phase epitaxy. Thin Solid Films, 2005, 486, 79-81.	1.8	7
63	Solvothermal synthesis and electrochemical behavior of nanocrystalline cubic LiTiO oxides with cationic disorder. Solid State Ionics, 2005, 176, 1877-1885.	2.7	40
64	The relationship between photocatalytic activity and crystal structure in strontium tantalates. Journal of Catalysis, 2005, 232, 102-107.	6.2	118
65	The Effect of Varying Ca-Content on the Structure of High-T <sub>c</sub> Superconductor (Ca <sub>x</sub> La <sub>1-x</sub> )(Ba <sub>1.75-x</sub> La <sub>0.25+x</sub> )Cu <sub>3</sub> O <sub>7-δ</sub> Studied by Neutron Powder Diffraction. Materials Science Forum, 2004, 443-444, 361-364.	0.3	0
66	Highly c-oriented RuSr <sub>2</sub> (Eu <sub>1.5</sub> Ce <sub>0.5</sub> )Cu <sub>2</sub> O <sub>10</sub> thin film growth by pulsed laser deposition and subsequent post-annealing. Physica C: Superconductivity and Its Applications, 2004, 403, 21-24.	1.2	8
67	Chelating of Titanium by Lactic Acid in the Water-Soluble Diammonium Tris(2-hydroxypropionato)titanate(IV). Inorganic Chemistry, 2004, 43, 4546-4548.	4.0	90
68	Observation of the Epitaxial Satellite Phase in the Superconducting RuSr <sub>2</sub> Eu <sub>1.5</sub> Ce <sub>0.5</sub> Cu <sub>2</sub> O <sub>10</sub> Ceramic Samples. Chemistry of Materials, 2003, 15, 4417-4423.	6.7	8
69	Observation of Local Crystal Structure Change in (Ca <sub>x</sub> La <sub>1-x</sub> )(Ba <sub>1.75-x</sub> La <sub>0.25+x</sub> )Cu <sub>3</sub> O <sub>7-δ</sub> . Tetragonal Superconductor Using Raman Scattering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2002, 49, 372-376.	0.2	1
70	A New Water-Soluble Ammonium Citratoperoxotitanate as an Environmentally Beneficial Precursor for TiO <sub>2</sub> Thin Films and RuO <sub>2</sub> /BaTi <sub>4</sub> O <sub>9</sub> Photocatalysts. Chemistry of Materials, 2002, 14, 2845-2846.	6.7	33
71	Preparation and characterization of citratoperoxotitanate barium compound for BaTiO <sub>3</sub> synthesis. Solid State Ionics, 2002, 151, 293-297.	2.7	24
72	Synthesis of (Ca <sub>x</sub> La <sub>1.00-x</sub> )(Ba <sub>1.75-x</sub> La <sub>0.25+x</sub> )Cu <sub>3</sub> O <sub>z</sub> tetragonal superconductor by amorphous metal complex method. Solid State Ionics, 2002, 151, 299-304.	2.7	2

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73	Structure and Stability of Water Soluble $(\text{NH}_4)_8[\text{Ti}_4(\text{C}_6\text{H}_4\text{O}_7)_4(\text{O}_2)_4] \cdot 8\text{H}_2\text{O}$ . Inorganic Chemistry, 2001, 40, 891-894.	4.0	164
74	Synthesis and Characterization of $(\text{Ca}_x\text{La}_{1-x})(\text{Ba}_{1.75-x}\text{La}_{0.25+x})\text{Cu}_3\text{O}_{7+\delta}$ . Tetragonal Superconductor by an Aqueous Solution Technique Using Citric Acid.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2001, 48, 1147-1151.	0.2	0
75	Synthesis of high-purity $(\text{Ca}_x\text{La}_{1.00-x})(\text{Ba}_{1.75-x}\text{La}_{0.25+x})\text{Cu}_3\text{O}_z$ tetragonal superconductor by an aqueous solution technique using citric acid. Physica C: Superconductivity and Its Applications, 2001, 357-360, 260-264.	1.2	6
76	Raman spectroscopy as a unique tool for characterizing high-Tc superconducting oxides. Physica C: Superconductivity and Its Applications, 2000, 338, 144-150.	1.2	9
77	Raman active modes in $\text{Nd}_2\text{BaCu}_3\text{O}_z$ compound. Physica C: Superconductivity and Its Applications, 2000, 338, 151-156.	1.2	4
78	Structural disorder and superconductivity suppression in $\text{NdBa}_2\text{Cu}_3\text{O}_z$ ( $z \approx 14.7$ ). Physica C: Superconductivity and Its Applications, 2000, 340, 16-32.	1.2	26
79	A simple and reproducible way to synthesize $\text{PrBa}_2\text{Cu}_4\text{O}_8$ under 1 atm of oxygen by amorphous citrate method. Physica C: Superconductivity and Its Applications, 1999, 321, 74-80.	1.2	14
80	Effect of Sr substitution on irreversibility line, lattice dynamics and formation of Hg,Pb-1223 superconductors. Physica C: Superconductivity and Its Applications, 1998, 305, 57-67.	1.2	30
81	Raman Study of Compositionally Induced Phase Transitions in $\text{Nd}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_z$ Solid Solutions. Key Engineering Materials, 1997, 132-136, 1285-1288.	0.4	5
82	Studies of the $\text{La}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_z$ prepared from highly homogeneous precursors. Applied Superconductivity, 1997, 5, 47-52.	0.5	2