## Valery V Petrykin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Beyond the volcano limitations in electrocatalysis – oxygen evolution reaction. Physical Chemistry Chemical Physics, 2014, 16, 13682-13688.	2.8	292
2	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
3	Structure and Stability of Water Soluble (NH4)8[Ti4(C6H4O7)4(O2)4]·8H2O. Inorganic Chemistry, 2001, 40, 891-894.	4.0	164
4	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
5	The relationship between photocatalytic activity and crystal structure in strontium tantalates. Journal of Catalysis, 2005, 232, 102-107.	6.2	118
6	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
7	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
8	Local structure of Co doped RuO2 nanocrystalline electrocatalytic materials for chlorine and oxygen evolution. Catalysis Today, 2013, 202, 63-69.	4.4	73
9	Zn-Doped RuO <sub>2</sub> electrocatalyts 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
10	Direct synthesis of brookite-type titanium oxide by hydrothermal method using water-soluble titanium complexes. Journal of Materials Science, 2008, 43, 2158-2162.	3.7	59
11	Selectivity of Nanocrystalline IrO2-Based Catalysts in Parallel Chlorine and Oxygen Evolution. Electrocatalysis, 2015, 6, 198-210.	3.0	48
12	Hydrothermal Synthesis and Photocatalytic Activity of Whiskerâ€Like Rutileâ€Type Titanium Dioxide. Journal of the American Ceramic Society, 2009, 92, S21.	3.8	46
13	Local Structure of Nanocrystalline Ru <sub>1â^'<i>x</i></sub> Ni <sub><i>x</i></sub> O <sub>2â^'î</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
14	Synthesis of High-Brightness Sub-micrometer Y2O2S Red Phosphor Powders by Complex Homogeneous Precipitation Method. Chemistry of Materials, 2006, 18, 6303-6307.	6.7	44
15	Solvothermal synthesis and electrochemical behavior of nanocrystalline cubic Li–Ti–O oxides with cationic disorder. Solid State Ionics, 2005, 176, 1877-1885.	2.7	40
16	Synthesis and Structure of New Water-Soluble and Stable Tantalum Compound:  Ammonium Tetralactatodiperoxo-μ-oxo-ditantalate(V). Inorganic Chemistry, 2006, 45, 9251-9256.	4.0	38
17	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
18	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

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19	Hydrothermal synthesis of TiO2 nano-particles using novel water-soluble titanium complexes. Journal of Materials Science, 2008, 43, 2217-2221.	3.7	35
20	A New Water-Soluble Ammonium Citratoperoxotitanate as an Environmentally Beneficial Precursor for TiO2Thin Films and RuO2/BaTi4O9Photocatalysts. Chemistry of Materials, 2002, 14, 2845-2846.	6.7	33
21	Selective Chlorine Evolution Catalysts Based on Mg-Doped Nanoparticulate Ruthenium Dioxide. Journal of the Electrochemical Society, 2015, 162, H23-H31.	2.9	32
22	Hydrothermal synthesis of brookite type TiO2 photocatalysts using a water-soluble Ti-complex coordinated by ethylenediaminetetraacetic acid. Journal of the Ceramic Society of Japan, 2009, 117, 320-325.	1.1	31
23	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
24	New water-soluble complexes of titanium with amino acids and their application for synthesis of TiO2 nanoparticles. Journal of the Ceramic Society of Japan, 2008, 116, 578-583.	1.1	28
25	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
26	Structural disorder and superconductivity suppression in NdBa2Cu3Oz (zâ^1⁄47). Physica C: Superconductivity and Its Applications, 2000, 340, 16-32.	1.2	26
27	Preparation and characterization of citratoperoxotitanate barium compound for BaTiO3 synthesis. Solid State Ionics, 2002, 151, 293-297.	2.7	24
28	Morphology Control of Rutile Nanoparticles in a Hydrothermal Synthesis from Water-Soluble Titanium Complex Aqueous Solution. Journal of the Ceramic Society of Japan, 2007, 115, 835-839.	1.1	24
29	Oxygen reduction on nanocrystalline ruthenia – local structure effects. RSC Advances, 2015, 5, 1235-1243.	3.6	24
30	Synthesis of TiO2(B) using glycolato titanium complex and post-synthetic hydrothermal crystal growth of TiO2(B). Journal of Crystal Growth, 2009, 311, 619-622.	1.5	23
31	Direct Synthesis of BaAl2S4:Eu2+ Blue Emission Phosphor by One-Step Sulfurization of Highly Homogeneous Oxide Precursor Prepared via a Solution-Based Method. Chemistry of Materials, 2008, 20, 5128-5130.	6.7	18
32	Hydrothermal Synthesis of Nanosized Titania Photocatalysts Using Novel Water-Soluble Titanium Complexes. Solid State Phenomena, 2007, 124-126, 723-726.	0.3	17
33	Photocatalytic activity of nanocrystalline TiO2(B) synthesized from titanium glycolate complex by hydrothermal method. Journal of the Ceramic Society of Japan, 2009, 117, 347-350.	1.1	17
34	Surface Stability of Pt3Ni Nanoparticulate Alloy Electrocatalysts in Hydrogen Adsorption. Langmuir, 2013, 29, 9046-9050.	3.5	17
35	Microwave-Assisted Hydrothermal Synthesis of Brookite Nanoparticles from a Water-Soluble Titanium Complex and Their Photocatalytic Activity. Journal of the Ceramic Society of Japan, 2007, 115, 826-830.	1.1	15
36	A simple and reproducible way to synthesize PrBa2Cu4O8 under 1 atm of oxygen by amorphous citrate method. Physica C: Superconductivity and Its Applications, 1999, 321, 74-80.	1.2	14

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37	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
38	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
39	Sr2ZnS3: Crystal Structure and Fluorescent Properties of a New Eu(II)-Activated Yellow Emission Phosphor. Chemistry of Materials, 2010, 22, 5800-5802.	6.7	13
40	Methanol-Water System for Solvothermal Synthesis of YVO4:Eu with High Photoluminescent Intensity. Journal of the American Ceramic Society, 2009, 92, S16-S20.	3.8	12
41	Synthesis and effect of Sr substitution on fluorescence of new Ba2â^'xSrxZnS3: Eu2+ red phosphor: Considerable enhancement of emission intensity. Journal of Crystal Growth, 2009, 311, 647-650.	1.5	12
42	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
43	Topologically Sensitive Surface Segregations of Au–Pd Alloys in Electrocatalytic Hydrogen Evolution. ChemElectroChem, 2014, 1, 207-212.	3.4	12
44	Water Soluble Na[Nb(O <sub>2</sub> ) <sub>3</sub> ]•2H <sub>2</sub> O as a New Molecular Precursor for Synthesis of Sodium Niobate. Journal of the Ceramic Society of Japan, 2007, 115, 808-812.	1.1	11
45	Synthesis of K3Ta3B2O12 photocatalytic material by aqueous solution-based process using a novel water soluble tantalum complex. Journal of the Ceramic Society of Japan, 2009, 117, 308-312.	1.1	10
46	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
47	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
48	Pinning Properties of PLD-Obtained GdBa2Cu3O7-x Coated Conductors Doped With BaSnO3. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	9
49	Observation of the Epitaxial Satellite Phase in the Superconducting RuSr2Eu1.5Ce0.5Cu2O10Ceramic Samples. Chemistry of Materials, 2003, 15, 4417-4423.	6.7	8
50	Highly c-oriented RuSr2(Eu1.5Ce0.5)Cu2O10â^'δ thin film growth by pulsed laser deposition and subsequent post-annealing. Physica C: Superconductivity and Its Applications, 2004, 403, 21-24.	1.2	8
51	Synthesis of BaAl2S4:Eu Phosphor Using BaS:Eu Precursor Prepared by the Polymerizable Complex Method. Journal of the Ceramic Society of Japan, 2007, 115, 615-618.	1.1	8
52	c-Axis oriented epitaxial Ru(Eu1.5Ce0.5)Sr2Cu2O10â^´î´ thin films grown by flux-mediated solid phase epitaxy. Thin Solid Films, 2005, 486, 79-81.	1.8	7
53	Photocatalytic Properties of HCa2Nb3O10 Prepared by Polymerizable Complex Method. Journal of the Ceramic Society of Japan, 2007, 115, 511-513.	1.1	7
54	Synthesis of high-purity (CaxLa1.00â^'x)(Ba1.75â^'xLa0.25+x)Cu3Oz tetragonal superconductor by an aqueous solution technique using citric acid. Physica C: Superconductivity and Its Applications, 2001, 357-360, 260-264.	1.2	6

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55	Synthesis of Ba3Ta6Si4O26 using Aqueous Solution Processes and Its Photocatalytic Activity. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2010, 57, 701-705.	0.2	6
56	Synthesis and luminescence properties of a Cyanâ€blue thiosilicateâ€based Phosphor SrSi2S5:Eu2+. Journal of Information Display, 2010, 11, 135-139.	4.0	6
57	Inkjet Printing Multideposited YBCO on CGO/LMO/MgO/Y2O3/Al2 O3/Hastelloy Tape for 2G-Coated Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	6
58	Microstructures of superconducting joint between GdBa <sub>2</sub> Cu <sub>3</sub> O <i> <sub>y</sub> </i> -coated conductors via additionally deposited precursor films. Japanese Journal of Applied Physics, 2019, 58, 050913.	1.5	6
59	Raman Study of Compositionally Induced Phase Transitions in Nd <sub>1+x</sub> Ba <sub>2-x</sub> Cu <sub>3</sub> O <sub>z</sub> Solid Solutions. Key Engineering Materials, 1997, 132-136, 1285-1288.	0.4	5
60	Preparation of YVO4:Eu3+ Phosphors via Micro-Gel Spray Freeze-Drying Process. Journal of the Ceramic Society of Japan, 2007, 115, 920-924.	1.1	5
61	Selective Synthesis of TiO2 Polymorphs by Hydrothermal Method using New Water-Soluble Titanium Complexes. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 188-193.	0.2	5
62	Synthesis of SrGa2S4:Mn,Ce and SrGa2S4:Mn,La phosphors by sulfurization of oxide precursors prepared by an amorphous metal complex method and a micro-gel freezing drying process. Journal of the Ceramic Society of Japan, 2009, 117, 377-380.	1.1	5
63	Raman active modes in Nd2BaCu3Oz compound. Physica C: Superconductivity and Its Applications, 2000, 338, 151-156.	1.2	4
64	The influence of BaSnO3 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
65	Photocatalytic Conversion of NO on AgCl/Al2O3 Mixed with ZSM-5. Journal of the Ceramic Society of Japan, 2005, 113, 509-512.	1.3	3
66	Synthesis of nanocrystalline YVO4:Eu red emission phosphor with high fluorescence intensity by hydrothermal method using original vanadium-peroxo-citrate complex. Journal of the Ceramic Society of Japan, 2009, 117, 273-276.	1.1	3
67	Studies of the La1+xBa2â~'xCu3Oz prepared from highly homogeneous precursors. Applied Superconductivity, 1997, 5, 47-52.	0.5	2
68	Synthesis of (CaxLa1.00â^'x)(Ba1.75â^'xLa0.25+x)Cu3Oz tetragonal superconductor by amorphous metal complex method. Solid State Ionics, 2002, 151, 299-304.	2.7	2
69	Synthesis of high-purity YbBa <sub>2</sub> Cu <sub>3</sub> O <sub>7â^'d</sub> and LuBa <sub>2</sub> Cu <sub>3</sub> O <sub>7â^'d</sub> superconductors by	1.1	2
70	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
71	Observation of Local Crystal Structure Change in (CaxLa1-x)(Ba1.75-xLa0.25+x)Cu3O7+.DELTA. 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
72	Flux-assisted reactive solid phase epitaxy of highly c-axis oriented Ru(Eu1.5Ce0.5)Sr2Cu2O10â^δthin films. Physica C: Superconductivity and Its Applications, 2005, 422, 46-50.	1.2	1

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73	Effect of propylene glycol-water ratio on morphology of Y2O2S particles prepared by complex homogeneous precipitation method. Journal of the Ceramic Society of Japan, 2008, 116, 454-458.	1.1	1
74	Preparation of Eu2+and Ce3+co-activated phosphors with optimal composition in (Ba,Sr)2ZnS3solid solution series by polymerizable complex method. IOP Conference Series: Materials Science and Engineering, 2009, 1, 012025.	0.6	1
75	Photocatalytic Patterning using Nano-Colloidal Anatase in Aqueous Solution Process. Transactions of the Materials Research Society of Japan, 2009, 34, 279-281.	0.2	1
76	Synthesis of Y2O3: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
77	Spark-Discharge Plasma as a Method to Produce Low AC Loss Multifilamentary (RE)Ba2Cu3 O7 Coated Conductors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	1
78	Chemistry and Applications of Polymeric Gel Precursors. , 2017, , 1-32.		1
79	Synthesis and Characterization of (CaxLa1-x)(Ba1.75-xLa0.25+x)Cu3O7+.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
80	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&amp; (x = 0.5, 0.6, and 0.8) Studied by Neutron Powder Diffraction. Materials Science Forum, 2004, 443-444, 361-364.</sub>	t;/syb>	;)Çu <sub&< td=""></sub&<>
81	Synthesis of Multicomponent Sulfide Phosphors from Uniform Precursors Prepared by Solution Methods. ECS Transactions, 2009, 25, 51-54.	0.5	0

82 Chemistry and Applications of Polymeric Gel Precursors. , 2018, , 81-112.