

# Andrei Kanaev

## List of Publications by Year in descending order

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56  
papers

1,169  
citations

430874

18  
h-index

395702

33  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1570  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-related photoluminescence of hexagonal boron nitride. <i>Physical Review B</i> , 2008, 78, .	3.2	199
2	New homogeneously doped Fe(III)-TiO <sub>2</sub> photocatalyst for gaseous pollutant degradation. <i>Applied Catalysis A: General</i> , 2011, 399, 191-197.	4.3	59
3	New photoactive hybrid organic-inorganic materials based on titanium-oxo-PHEMA nanocomposites exhibiting mixed valence properties. <i>Journal of Materials Chemistry</i> , 2005, 15, 3380.	6.7	56
4	Light-induced charge separation and storage in titanium oxide gels. <i>Physical Review E</i> , 2005, 71, 021403.	2.1	53
5	Stability and Growth of Titanium-oxo-alkoxy Ti <sub>x</sub> O <sub>y</sub> (OiPr) <sub>z</sub> Clusters. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16243-16248.	3.1	48
6	Sol-Gel Reactor With Rapid Micromixing. <i>Chemical Engineering Research and Design</i> , 2005, 83, 67-74.	5.6	47
7	Laser-induced photopatterning of organic-inorganic TiO <sub>2</sub> -based hybrid materials with tunable interfacial electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1248.	2.8	47
8	Elaboration of pure and doped TiO <sub>2</sub> nanoparticles in sol-gel reactor with turbulent micromixing: Application to nanocoatings and photocatalysis. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1123-1130.	5.6	42
9	Nanoparticulate TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Photocatalytic Media: Effect of Particle Size and Polymorphism on Photocatalytic Activity. <i>ACS Catalysis</i> , 2012, 2, 1884-1892.	11.2	41
10	Amorphous-anatase phase transition in single immobilized TiO <sub>2</sub> nanoparticles. <i>Chemical Physics Letters</i> , 2013, 558, 53-56.	2.6	40
11	Photocatalytic paper based on sol-gel titania nanoparticles immobilized on porous silica for VOC abatement. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 123-133.	20.2	34
12	Extinction of photo-induced Ti <sup>3+</sup> centres in titanium oxide gels and gel-based oxo-PHEMA hybrids. <i>Chemical Physics Letters</i> , 2006, 429, 523-527.	2.6	33
13	Kinetics of UV-induced darkening of titanium-oxide gels. <i>Applied Surface Science</i> , 2005, 248, 86-90.	6.1	32
14	Novel nanostructured pHEMA-TiO <sub>2</sub> hybrid materials with efficient light-induced charge separation. <i>Nanoscale</i> , 2011, 3, 1807.	5.6	24
15	Temperature dependence of the titanium oxide sols precipitation kinetics in the sol-gel process. <i>Chemical Physics Letters</i> , 2004, 398, 157-162.	2.6	22
16	Nucleation-Growth of TiO <sub>2</sub> Nanoparticles Doped with Iron Acetylacetonate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5244-5250.	3.1	22
17	Growth of Silver Nanoclusters on Monolayer Nanoparticulate Titanium-oxo-alkoxy Coatings. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17239-17247.	3.1	20
18	Photoluminescence and electronic transitions in cubic silicon nitride. <i>Scientific Reports</i> , 2016, 6, 18523.	3.3	19

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19	Synthesis and photoluminescence properties of nanostructured mullite/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . Acta Materialia, 2014, 71, 108-116.	7.9	18
20	Effect of Light Intensity on the Free-Radical Photopolymerization Kinetics of 2-Hydroxyethyl Methacrylate: Experiments and Simulations. Journal of Physical Chemistry B, 2020, 124, 6857-6866.	2.6	18
21	Isolation of titania nanoparticles in monolithic ultraporous alumina: Effect of nanoparticle aggregation on anatase phase stability and photocatalytic activity. Applied Catalysis A: General, 2011, 402, 156-161.	4.3	17
22	Solvent effect on nucleation-growth of titanium-oxo-alkoxy nanoparticles. Chemical Physics Letters, 2017, 672, 119-123.	2.6	17
23	Laser imprinting of 3D structures in gel-based titanium oxide organic-inorganic hybrids. Applied Physics A: Materials Science and Processing, 2006, 84, 27-30.	2.3	16
24	Nucleation and growth kinetics of zirconium-oxo-alkoxy nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 2651-2659.	2.8	16
25	Laser-Assisted High-Pressure-Induced Polymerization of 2-(Hydroxyethyl)methacrylate. Journal of Physical Chemistry B, 2015, 119, 3577-3582.	2.6	15
26	Mixing strategies for zinc oxide nanoparticle synthesis via a polyol process. AIChE Journal, 2015, 61, 1708-1721.	3.6	13
27	A New Route for High-Purity Organic Materials: High-Pressure-Ramp-Induced Ultrafast Polymerization of 2-(Hydroxyethyl)Methacrylate. Scientific Reports, 2016, 5, 18244.	3.3	13
28	Electronic transitions in $\hat{\Gamma}_4$ , $\hat{\Gamma}_1$ , and $\hat{\Gamma}_3$ polymorphs of ultraporous monolithic alumina. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1026-1029.	2.4	12
29	Surface structuring of rutile TiO <sub>2</sub> (100) and (001) single crystals with femtosecond pulsed laser irradiation. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2600.	2.1	12
30	Morphology and luminescence of MgAl <sub>2</sub> O <sub>4</sub> ceramics obtained via spark plasma sintering. Ceramics International, 2019, 45, 8305-8312.	4.8	12
31	Luminescence properties of pHEMA-TiO <sub>2</sub> gels based hybrids materials. Journal of Luminescence, 2012, 132, 1192-1199.	3.1	11
32	Synthesis of organic-inorganic hybrids via a high-pressure-ramp process: the effect of inorganic nanoparticle loading on structural and photochromic properties. Nanoscale, 2018, 10, 22293-22301.	5.6	11
33	Porous monoliths consisting of aluminum oxyhydroxide nanofibrils: 3D structure, chemical composition, and phase transformations in the temperature range 25-1700 °C. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	11
34	From nanoparticles to bulk crystalline solid: nucleation, growth kinetics and crystallisation of mixed oxide Zr <sub>x</sub> Ti <sub>1-x</sub> O <sub>2</sub> nanoparticles. CrystEngComm, 2017, 19, 3955-3965.	2.6	9
35	Design of Novel Sulfated Nanozirconia Catalyst for Biofuel Synthesis. Industrial & Engineering Chemistry Research, 2017, 56, 1394-1403.	3.7	8
36	Effects of Ta doping and irradiation with He <sup>+</sup> ions on photoluminescence of MgAl <sub>2</sub> O <sub>4</sub> spinel ceramics. Journal of the European Ceramic Society, 2020, 40, 3215-3221.	5.7	8

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37	Electronic Band Transitions in $\hat{I}^3$ -Ge <sub>3</sub> N <sub>4</sub> . <i>Electronic Materials Letters</i> , 2021, 17, 315-323.	2.2	8
38	A new solvothermal route to efficient titania photocatalyst. <i>Materials Chemistry and Physics</i> , 2015, 160, 73-79.	4.0	7
39	Superhydrophobic and luminescent highly porous nanostructured alumina monoliths modified with tris(8-hydroxyquinolinato)aluminium. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109804.	4.4	7
40	Defects induced by He <sup>+</sup> irradiation in $\hat{I}^3$ -Si <sub>3</sub> N <sub>4</sub> . <i>Journal of Luminescence</i> , 2021, 237, 118132.	3.1	7
41	Formation of gel of preformed size-selected titanium-oxo-alkoxy nanoparticles: towards organic-inorganic hybrid material with efficient interfacial electron transfer. <i>Materials Research Express</i> , 2014, 1, 045039.	1.6	6
42	Effect of laser polarization and crystalline orientation on ZnO surface nanostructuring in the regime of high-density electronic excitation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, C44.	2.1	6
43	The Role of Crystalline Orientation in the Formation of Surface Patterns on Solids Irradiated with Femtosecond Laser Double Pulses. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8811.	2.5	6
44	Solvent-Free Synthesized Monolithic Ultraporous Aluminas for Highly Efficient Removal of Remazol Brilliant Blue R: Equilibrium, Kinetic, and Thermodynamic Studies. <i>Materials</i> , 2021, 14, 3054.	2.9	6
45	Photocatalytic Activity of Nanocoatings Based on Mixed Oxide V-TiO <sub>2</sub> Nanoparticles with Controlled Composition and Size. <i>Catalysts</i> , 2021, 11, 1457.	3.5	6
46	Alkoxysilane effect in hybrid material: A comparison of pHEMA-TiO <sub>2</sub> and pMAPTMS-TiO <sub>2</sub> nanoparticulate hybrids. <i>Materials Research Bulletin</i> , 2019, 114, 130-137.	5.2	5
47	Microstructure and optical properties of alumina sintered from various phases. <i>Ceramics International</i> , 2019, 45, 9625-9630.	4.8	5
48	Nucleation and growth of mixed vanadium-titanium oxo-alkoxy nanoparticles in sol-gel synthesis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125636.	4.7	5
49	Pathways control in modification of solid surfaces induced by temporarily separated femtosecond laser pulses. <i>Applied Surface Science</i> , 2021, 566, 150611.	6.1	5
50	Observation of cavitation in exocentric T-mixer. <i>Chemical Engineering Journal</i> , 2017, 321, 146-150.	12.7	4
51	Nucleation and fractal growth of zirconium oxo-alkoxy nanoparticles at the induction stage of sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 145-148.	2.4	3
52	Photocatalytic Nanoparticulate Zr <sub>x</sub> Ti <sub>1-x</sub> O <sub>2</sub> Coatings with Controlled Homogeneity of Elemental Composition. <i>ChemistrySelect</i> , 2018, 3, 11118-11126.	1.5	3
53	Polymerization initiation of pure 2-hydroxyethylmethacrylate under shock wave compression. <i>New Journal of Chemistry</i> , 2022, 46, 9258-9263.	2.8	2
54	Laccase Cross-Linked Ultraporous Aluminas for Sustainable Biodegradation of Remazol Brilliant Blue R. <i>Catalysts</i> , 2022, 12, 744.	3.5	2

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55	Study of the Photocatalytic Antimicrobial Activity of Nanocomposites Based on TiO <sub>2</sub> –Al <sub>2</sub> O <sub>3</sub> under Action of LED Radiation (405 nm) on Staphylococci. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 00784314 rgBT /Overlo	0.4	0
56	Mixing-Time in T-Mixer Reactor. Lecture Notes in Mechanical Engineering, 2019, , 1-8.	0.4	0