

Shiro Kubuki

List of Publications by Year in descending order

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118
papers

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567281

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Self-assembly of MoS ₂ nanosheet adhered on Fe-MOF heterocrystals for peroxymonosulfate activation via interfacial interaction. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 3098-3110.	9.4	22
2	Development of electrically conductive ZrO ₂ -CaO-Fe ₂ O ₃ -V ₂ O ₅ glass and glass-ceramics as a new cathode active material for Na-ion batteries with high performance. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163309.	5.5	4
3	Electrical Transport in Iron Phosphate-Based Glass-(Ceramics): Insights into the Role of B ₂ O ₃ and HfO ₂ from Model-Free Scaling Procedures. <i>Nanomaterials</i> , 2022, 12, 639.	4.1	3
4	Elucidating the Mechanistic Origin of a Spin State-Dependent FeN _x C Catalyst toward Organic Contaminant Oxidation via Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2022, 56, 1321-1330.	10.0	81
5	Mössbauer study of some novel iron-bis-glyoxime and iron-tris-glyoxime complexes. <i>Hyperfine Interactions</i> , 2022, 243, 1.	0.5	2
6	Highly covalent FeIII-O bonding in photo-Fenton active Sn-doped goethite nanoparticles. <i>Materials Chemistry and Physics</i> , 2022, 287, 126247.	4.0	4
7	Structural, electrical and photocatalytic properties of iron-containing soda-lime aluminosilicate glass and glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2021, 553, 120510.	3.1	13
8	Influence of Cr doping on the structural, magnetic, optical and photocatalytic properties of $\hat{1}\pm$ -Fe ₂ O ₃ nanorods. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109699.	4.0	16
9	Photocatalytic degradation of organic dyes and phenol by iron-silicate glass prepared by the sol-gel method. <i>New Journal of Chemistry</i> , 2021, 45, 19019-19031.	2.8	8
10	Influence of low-spin Co ³⁺ for high-spin Fe ³⁺ substitution on the structural, magnetic, optical and catalytic properties of hematite ($\hat{1}\pm$ -Fe ₂ O ₃) nanorods. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 152, 109929.	4.0	12
11	Self-Assembly of Nanosheet-Supported Fe-MOF Heterocrystals as a Reusable Catalyst for Boosting Advanced Oxidation Performance via Radical and Nonradical Pathways. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22694-22707.	8.0	40
12	Structural characterization, electrical and photocatalytic properties of $\hat{1}\pm$ and $\hat{1}^3$ -Fe ₂ O ₃ nanoparticles dispersed in iron aluminosilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2021, 561, 120756.	3.1	12
13	Municipal waste slag for dyes photocatalytic and metal recovery applications through structural analysis and experimental characterization. <i>International Journal of Energy Research</i> , 2021, 45, 17691-17708.	4.5	4
14	BiOBr/MoS ₂ catalyst as heterogenous peroxymonosulfate activator toward organic pollutant removal: Energy band alignment and mechanism insight. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 635-649.	9.4	51
15	Local structure, glass transition, structural relaxation, and crystallization of functional oxide glasses investigated by Mössbauer spectroscopy and DTA. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23655-23689.	2.2	5
16	Structural characterization and visible light activated photocatalytic ability of glass-ceramics prepared from municipal solid waste. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 2266-2277.	3.0	2
17	⁵⁷ Fe-Mössbauer and XAFS Studies of Conductive Sodium Phospho-Vanadate Glass as a Cathode Active Material for Na-ion Batteries with Large Capacity. <i>Journal of Non-Crystalline Solids</i> , 2021, 570, 120998.	3.1	9
18	Synthesis, characterization and magnetic properties of $\hat{1}\mu$ -Fe ₂ O ₃ nanoparticles prepared by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 538, 168264.	2.3	16

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19	Magnetic property and ^{57}Fe Mössbauer analysis of dilute Fe and Nb codoped SrTiO_3 - δ (STO) perovskites. <i>Hyperfine Interactions</i> , 2020, 241, 1.	0.5	3
20	Photo-Fenton catalytic ability of iron-containing aluminosilicate glass prepared by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2020, 816, 153227.	5.5	12
21	PVP surfactant-modified flower-like BiOBr with tunable bandgap structure for efficient photocatalytic decontamination of pollutants. <i>Applied Surface Science</i> , 2020, 530, 147233.	6.1	67
22	Structural characterization and magnetic properties of iron-phosphate glass prepared by sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2020, 543, 120158.	3.1	5
23	Emergence of ferromagnetism due to charge transfer in compressed ilmenite powder using super-high-energy ball milling. <i>Scientific Reports</i> , 2020, 10, 5293.	3.3	2
24	Photo-Fenton degradation of methylene blue using hematite-enriched slag under visible light. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 325, 537-549.	1.5	16
25	The relationship between local structure and photo-Fenton catalytic ability of glasses and glass-ceramics prepared from Japanese slag. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 751-761.	1.5	9
26	Mössbauer and photocatalytic studies of CaFe_2O_4 nanoparticle-containing aluminosilicate prepared from domestic waste simulated slag. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 1469-1476.	1.5	4
27	^{119}Sn and ^{57}Fe Mössbauer study of highly conductive vanadate glass. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8847-8854.	2.2	4
28	State analysis of fluorine-doped SnO_2 (FTO) by ^{57}Fe Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2019, 240, 1.	0.5	0
29	Determination of iron species, including biomineralized jarosite, in the iron-hyperaccumulator moss <i>Scopelophila ligulata</i> by Mössbauer, X-ray diffraction, and elemental analyses. <i>BioMetals</i> , 2019, 32, 171-184.	4.1	1
30	Influence of Fe(III) doping on the crystal structure and properties of hydrothermally prepared β - $\text{Ni}(\text{OH})_2$ nanostructures. <i>Journal of Alloys and Compounds</i> , 2018, 750, 687-695.	5.5	30
31	Improving the visible-light photocatalytic activity of SnO_x - SiO_2 glass systems by introducing SnO_x nanoparticles. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 316, 579-586.	1.5	0
32	Structural relaxation and electrical conductivity of molybdovanadate glass. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2654-2659.	2.2	4
33	Effect of Substitutional Doping of Tin in Highly Conductive Barium Iron Vanadate Glass. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 216, 1800157.	1.8	6
34	^{57}Fe and ^{119}Sn Mössbauer, XRD, FTIR and DC conductivity study of $\text{Li}_2\text{O}-\text{Fe}_2\text{O}_3-\text{SnO}_2-\text{P}_2\text{O}_5$ glass and glass ceramics. <i>Journal of Alloys and Compounds</i> , 2018, 765, 121-127.	5.5	18
35	Effect of phosphorus precursors on the structure of bioactive calcium phosphate silicate systems. <i>Materials Science and Engineering C</i> , 2017, 73, 767-777.	7.3	6
36	The relationship between SnII fraction and visible light activated photocatalytic activity of SnO_x - SiO_2 glass studied by Mössbauer spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1859-1865.	1.5	3

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55	Degradation of Trichloroethylene and Methylene Blue by a Mixture of FeO and $\hat{3}$ -Fe ₂ O ₃ âˆ A Review. ACS Symposium Series, 2014, , 179-191.	0.5	1
56	MÃ¶ssbauer study of conductive oxide glass. AIP Conference Proceedings, 2014, , .	0.4	4
57	Magnetic interaction in oxygenated alpha Fe-phthalocyanines. , 2014, , .		1
58	MÃ¶ssbauer study of metallic iron and iron oxide nanoparticles having environmental purifying ability. , 2014, , .		3
59	Visible Light-Activated Photocatalytic Effect of Iron-Containing Silicate Glass - A Review. ACS Symposium Series, 2014, , 71-84.	0.5	1
60	⁵⁷ Fe-MÃ¶ssbauer study of electrically conductive alkaline iron vanadate glasses. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 453-459.	1.5	8
61	Visible light activated photo-catalytic effect and local structure of iron silicate glass prepared by sol-gel method. Hyperfine Interactions, 2014, 226, 747-753.	0.5	13
62	Electrical conductivity and local structure of lithium iron tungsten vanadate glass. Hyperfine Interactions, 2014, 226, 755-763.	0.5	0
63	MÃ¶ssbauer study of novel iron(II)-dioxime complexes with branched alkyl chains. Hyperfine Interactions, 2014, 226, 181-185.	0.5	7
64	Controlled crystallization a ionic conductivity of nanostructured LiNbFePO ₄ glass ceramic. Hyperfine Interactions, 2014, 226, 131-140.	0.5	2
65	MÃ¶ssbauer study of new vanadate glass with large charge-discharge capacity. Hyperfine Interactions, 2014, 226, 765-770.	0.5	5
66	Local structure and water cleaning ability of iron oxide nanoparticles prepared by hydro-thermal reaction. Hyperfine Interactions, 2014, 226, 489-497.	0.5	1
67	Visible light activated catalytic effect of iron containing soda-lime silicate glass characterized by ⁵⁷ Fe-MÃ¶ssbauer spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 2014, 301, 1-7.	1.5	12
68	A relationship between oxidation state of iron and color of Arita celadon glaze characterized by $\hat{57}$ Fe-MÃ¶ssbauer spectroscopy. Journal of the Ceramic Society of Japan, 2014, 122, 520-522.	1.1	6
69	Structural Characterization of Electrical Conductive Vanadate Glass. Radioisotopes, 2014, 63, 69-77.	0.2	0
70	MÃ¶ssbauer study of FINEMET with different permeability. Hyperfine Interactions, 2013, 219, 63-67.	0.5	7
71	Electrical conductivity and local structure of lithium tin iron vanadate glass. Hyperfine Interactions, 2013, 219, 141-145.	0.5	6
72	Characterization of electrically conductive vanadate glass containing tungsten oxide. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1123-1128.	1.5	8

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73	Enhancement of electrical conductivity and chemical durability of $20R2O \cdot 10Fe_2O_3 \cdot xWO_3 \cdot (70 \sim x)V_2O_5$ glass (R=Na, K) caused by structural relaxation. Journal of Non-Crystalline Solids, 2013, 378, 227-233.	3.1	12
74	Water cleaning ability and local structure of iron-containing soda-lime silicate glass. Hyperfine Interactions, 2013, 218, 41-45.	0.5	6
75	Decomposition mechanism of methylene blue caused by metallic iron-maghemite mixture. Hyperfine Interactions, 2013, 218, 47-52.	0.5	6
76	Various Three-Dimensional Structures Connected by Al-O/OH/Acetate-Al Bonds. Inorganic Chemistry, 2013, 52, 13238-13243.	4.0	8
77	Effect of the structural change of an iron-iron oxide mixture on the decomposition of trichloroethylene. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 23-30.	1.5	6
78	[⁵⁷ Fe] Mössbauer study of conductive vanadate glass with high chemical durability. AIP Conference Proceedings, 2012, , .	0.4	1
79	[⁵⁷ Fe] Mössbauer study of iron-containing soda-lime silicate glass with COD reducing ability. , 2012, , .		2
80	Non-HPLC Rapid Separation of Metallofullerenes and Empty Cages with $TiCl_4$ Lewis Acid. Journal of the American Chemical Society, 2012, 134, 9762-9767.	13.7	70
81	Propriedades estruturais e eletrônicas de Óxidos de ferro em esmaltes celadon (II). Ceramica, 2012, 58, 534-541.	0.8	4
82	Reclassification of CK chondrites confirmed by elemental analysis and Fe-Mössbauer spectroscopy. Hyperfine Interactions, 2012, 208, 75-78.	0.5	1
83	Electrical conductivity and local structure of barium manganese iron vanadate glass. Hyperfine Interactions, 2012, 207, 61-65.	0.5	11
84	Effect of nanocrystallization on the electrical conduction of silver lithium phosphate glasses containing iron and vanadium. Hyperfine Interactions, 2012, 205, 91-95.	0.5	0
85	Mechanically strengthened new Hagi porcelain developed by controlling the chemical environment of iron. Hyperfine Interactions, 2012, 211, 173-180.	0.5	1
86	Mössbauer Study of Water-Resistive Conductive Vanadate Glass. Radioisotopes, 2012, 61, 463-468.	0.2	15
87	Water cleaning ability and local structure of iron-containing soda-lime silicate glass. , 2012, , 197-201.		0
88	Decomposition mechanism of methylene blue caused by metallic iron-maghemite mixture. , 2012, , 203-208.		0
89	Electrical conductivity and local structure of lithium tin iron vanadate glass. , 2012, , 459-463.		0
90	Local structures and electronic band states of γ - Fe_2O_3 polycrystalline particles in the glazes of the HIZEN celadons produced in the Edo period of Japan, by means of X-ray absorption spectra (II). Ceramica, 2011, 57, 155-165.	0.8	2

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91	Mechanical strength and local structure of 'new' Hagi porcelain investigated by ^{57}Fe -Mössbauer spectroscopy. Journal of Physics: Conference Series, 2010, 217, 012067.	0.4	1
92	Mössbauer study of oxygen adducts in solid Fe(II) phthalocyanines. Journal of Physics: Conference Series, 2010, 217, 012029.	0.4	3
93	Electrical conductivity and local structure of iron-containing lithium barium vanadate glass. Journal of Physics: Conference Series, 2010, 217, 012026.	0.4	3
94	Structural Characterization of Gel-Derived Calcium Silicate Systems. Journal of Physical Chemistry A, 2010, 114, 10403-10411.	2.5	87
95	Dissolution behaviour of iron silicate glass. Hyperfine Interactions, 2009, 192, 31-36.	0.5	2
96	Dissolution behaviour of iron silicate glass. , 2009, , 533-538.		0
97	^{57}Fe -Mössbauer study of electrically conducting barium iron vanadate glass after heat treatment. Hyperfine Interactions, 2008, 185, 115-121.	0.5	0
98	Reduction of iron(III) in annealed asbestos/chrysotile. Hyperfine Interactions, 2008, 186, 161-166.	0.5	1
99	A Mossbauer Study of the Low Spin-High Spin Transition of an Oxygen Adduct Formed in Solid Fe^{2+} -Fe(II)Phthalocyanine. Open Inorganic Chemistry Journal, 2008, 2, 69-72.	0.3	2
100	Crystallization and Structural Relaxation of $x\text{BaO} (90-x)\text{V}_2\text{O}_5 10\text{Fe}_2\text{O}_3$ Glasses Accompanying an Enhancement of the Electric Conductivity. Journal of the Ceramic Society of Japan, 2007, 115, 776-779.	1.1	23
101	Incorporation of Fe in the interlayer of Na-bentonite via treatment with FeCl_3 in acetone. Clays and Clay Minerals, 2007, 55, 89-95.	1.3	11
102	Corelationship between local structure and water purifying ability of iron-containing waste glasses. Hyperfine Interactions, 2006, 166, 429-436.	0.5	6
103	Effect of FeCl_3 and acetone on the structure of Na ⁺ -montmorillonite studied by Mössbauer and XRD measurements. Hyperfine Interactions, 2006, 166, 643-649.	0.5	5
104	Corelationship between local structure and water purifying ability of iron-containing waste glasses. , 2006, , 429-436.		2
105	Mössbauer study of semiconducting and ferrimagnetic fly ash-recycled glass. Journal of Radioanalytical and Nuclear Chemistry, 2005, 266, 171-177.	1.5	11
106	'Ea-rule' applied to the crystallization study of gallate and vanadate glasses. Journal of Radioanalytical and Nuclear Chemistry, 2005, 266, 527-532.	1.5	0
107	Solidification of Hazardous Heavy Metal Ions with Soda-Lime Glass. Characterization of Iron and Zinc in the Waste Glass.. Journal of the Ceramic Society of Japan, 2000, 108, 245-248.	1.3	15
108	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2000, 246, 43-49.	1.5	4

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109	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2000, 246, 51-56.	1.5	2
110	Application of the "R _{Tg} " rule to the local structural study of ferrate glasses. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 237-240.	1.5	7
111	Mössbauer study on the crystallization of IR-transmitting aluminate glasses. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 303-307.	1.5	5
112	'T _g -DELTA. Rule' Applied to Semiconducting Vanadate Glasses Containing Different Amounts of Fe ₂ O ₃ . Journal of the Ceramic Society of Japan, 1999, 107, 408-412.	1.3	7
113	Substitution of Fe(III) for Ga(III) in calcium gallate glass confirmed from the Debye temperature. Journal of Radioanalytical and Nuclear Chemistry, 1998, 237, 47-50.	1.5	2
114	Crystallization mechanism of aluminoferrate glass accompanying a precipitation of nanocrystals of dicalcium ferrite (Ca ₂ Fe ₂ O ₅) and mayenite (12CaO·7Al ₂ O ₃). Journal of Materials Chemistry, 1997, 7, 1801-1806.	6.7	29
115	Application of the IR transmission method and the Mössbauer effect to the crystallization of calcium gallate glass. Journal of Non-Crystalline Solids, 1997, 209, 87-95.	3.1	5
116	Occupation of tungsten site by iron in sodium tungstate glasses. Journal of Non-Crystalline Solids, 1996, 194, 23-33.	3.1	30
117	Laser- and gamma-ray induced crystallization of IR-transmitting calcium gallate glass. Hyperfine Interactions, 1994, 94, 2125-2130.	0.5	2
118	IR transmission method applied to the crystallization of gallate glasses and the mechanism of crystallization caused by Ar ⁺ laser and ⁶⁰ Co γ -ray irradiation. Journal of Non-Crystalline Solids, 1994, 177, 193-199.	3.1	11