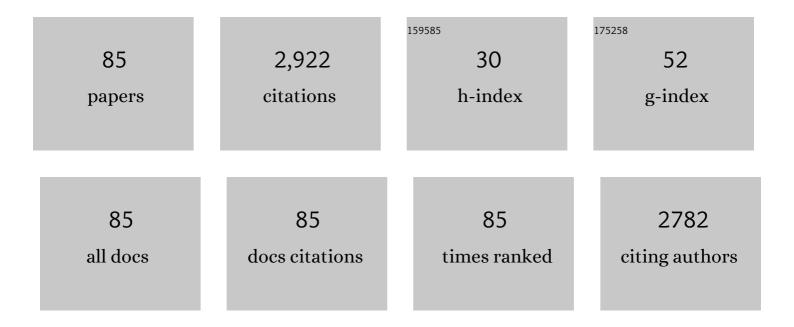
Soghomon Boghosian

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Rethinking the molecular structures of W ^{VI} O _{<i>x</i>} sites dispersed on titania: distinct mono-oxo configurations at 430 ŰC and temperature-dependent transformations. Dalton Transactions, 2022, 51, 7455-7475.	3.3	4
2	Advanced Synthesis and Characterization of Vanadia/Titania Catalysts through a Molecular Approach. Catalysts, 2021, 11, 322.	3.5	4
3	Molecular structure and termination configuration of Oxo-Re(VII) catalyst sites supported on Titania. Catalysis Today, 2020, 355, 665-677.	4.4	6
4	Proton-transfer in 1,1,3,3 tetramethyl guanidine by means of ultrasonic relaxation and Raman spectroscopies and molecular orbital calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 229, 117958.	3.9	17
5	In Situ Raman Spectroscopy as a Tool for Discerning Subtle Structural Differences between Commercial (Ce,Zr)O2-Based OSC Materials of Identical Composition. Catalysts, 2020, 10, 462.	3.5	9
6	Tuning the configuration of dispersed oxometallic sites in supported transition metal oxide catalysts: A temperature dependent Raman study. Catalysis Today, 2019, 336, 74-83.	4.4	10
7	Dynamics and vibrational coupling of methyl acetate dissolved in ethanol. Chemical Physics, 2019, 522, 1-9.	1.9	19
8	Di-oxo and tri-oxo Re(VII)-oxosulfato complexes in the Re2O7-K2S2O7 molten system. Molecular structure, vibrational properties and temperature-dependent interconversion. Vibrational Spectroscopy, 2019, 100, 14-21.	2.2	4
9	A Novel Analysis of Transient Isothermal 18O Isotopic Exchange on Commercial CexZr1â^'xO2-Based OSC Materials. Topics in Catalysis, 2019, 62, 219-226.	2.8	20
10	Ceria nanoparticles shape effects on the structural defects and surface chemistry: Implications in CO oxidation by Cu/CeO2 catalysts. Applied Catalysis B: Environmental, 2018, 230, 18-28.	20.2	359
11	Heterogeneity of deposited phases in supported transition metal oxide catalysts: reversible temperature-dependent evolution of molecular structures and configurations. Physical Chemistry Chemical Physics, 2018, 20, 1742-1751.	2.8	10
12	Molten and glassy tellurium(IV) oxosulfato complexes in the TeO 2 –K 2 S 2 O 7 system studied by Raman spectroscopy: Stoichiometry, vibrational properties and molecular structure. Vibrational Spectroscopy, 2018, 97, 85-90.	2.2	2
13	Structural and Redox Properties of Ce _{1–<i>x</i>} Zr _{<i>x</i>} O _{2â[^]î} and Ce _{0.8} Zr _{0.15} RE _{0.05} O _{2â[^]î} (RE: La, Nd, Pr, Y) Solids Studied by High Temperature <i>in Situ</i> Raman Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 7931-7943.	3.1	61
14	Molecular structure and reactivity of titania-supported transition metal oxide catalysts synthesized by equilibrium deposition filtration for the oxidative dehydrogenation of ethane. Comptes Rendus Chimie, 2016, 19, 1226-1236.	0.5	5
15	Molybdena deposited on titania by equilibrium deposition filtration: structural evolution of oxo–molybdenum(<scp>vi</scp>) sites with temperature. Physical Chemistry Chemical Physics, 2016, 18, 23980-23989.	2.8	17
16	Gold catalysts supported on Y-modified ceria for CO-free hydrogen production via PROX. Applied Catalysis B: Environmental, 2016, 188, 154-168.	20.2	47
17	Glass-forming ability of TeO2 and temperature induced changes on the structure of the glassy, supercooled, and molten states. Journal of Chemical Physics, 2015, 142, 154503.	3.0	40
18	Low-temperature water–gas shift on Pt/Ce0.5La0.5O2â~'δ: Effect of support synthesis method. Catalysis Today, 2015, 242, 153-167.	4.4	18

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19	Vibrational dephasing and frequency shifts of hydrogen-bonded pyridine–water complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 31-38.	3.9	23
20	Unraveling the role of microenvironment and hydrodynamic forces on the vibrational relaxation rates of pyridine–water complexes. Journal of Molecular Liquids, 2014, 198, 299-306.	4.9	11
21	Temperature-Dependent Evolution of the Molecular Configuration of Oxo-Tungsten(VI) Species Deposited on the Surface of Titania. Journal of Physical Chemistry C, 2014, 118, 11319-11332.	3.1	18
22	On the configuration, molecular structure and vibrational properties of MoOx sites on alumina, zirconia, titania and silica. Catalysis Science and Technology, 2013, 3, 1869.	4.1	59
23	Water–Gas Shift Reaction on Pt/Ce _{1–<i>x</i>} Ti _{<i>x</i>} O _{2â^î^} : The Effect of Ce/Ti Ratio. Journal of Physical Chemistry C, 2013, 117, 25467-25477.	3.1	48
24	Liquid phase dynamics of molten M2S2O7 (M=K, Cs): A temperature dependent Raman spectroscopic study. Vibrational Spectroscopy, 2013, 65, 66-73.	2.2	12
25	Molybdenum(VI) Oxosulfato Complexes in MoO3–K2S2O7–K2SO4 Molten Mixtures: Stoichiometry, Vibrational Properties, and Molecular Structures. Journal of Physical Chemistry A, 2012, 116, 8861-8872.	2.5	14
26	Short-time microscopic dynamics of aqueous methanol solutions. Molecular Physics, 2012, 110, 3095-3102.	1.7	9
27	An operando Raman study of molecular structure and reactivity of molybdenum(vi) oxide supported on anatase for the oxidative dehydrogenation of ethane. Physical Chemistry Chemical Physics, 2012, 14, 2216-2228.	2.8	32
28	Distribution of tellurite polymorphs in the xM2O–(1â^'x)TeO2 (M=Li, Na, K, Cs, and Rb) binary glasses using Raman spectroscopy. Vibrational Spectroscopy, 2012, 59, 18-22.	2.2	32
29	Raman Spectroscopic Study of Tungsten(VI) Oxosulfato Complexes in WO ₃ â [^] K ₂ S ₂ O ₇ â [^] K ₂ SO ₄ Molten Mixtures: Stoichiometry, Vibrational Properties, and Molecular Structure. Journal of Physical	2.5	14
30	In Situ Raman and FTIR Spectroscopy of Molybdenum(VI) Oxide Supported on Titania Combined with ¹⁸ O/ ¹⁶ O Exchange: Molecular Structure, Vibrational Properties, and Vibrational Isotope Effects. Journal of Physical Chemistry C, 2011, 115, 2146-2154.	3.1	42
31	Structural characterization and catalytic properties of bis(1,1,3,3-tetramethylguanidinium) dichromate. Polyhedron, 2011, 30, 785-789.	2.2	4
32	Structural and vibrational properties of molybdena catalysts supported on alumina and zirconia studied by in situ Raman and FTIR spectroscopies combined with 180/160 isotopic substitution. Catalysis Today, 2010, 158, 146-155.	4.4	18
33	Stoichiometry, Vibrational Modes, and Structure of Niobium(V) Oxosulfato Complexes in the Molten Nb ₂ O ₅ â^'K ₂ S ₂ O ₇ â^'K _{SO_{4< System Studied by Raman Spectroscopy. Journal of Physical Chemistry A, 2010, 114, 7485-7493.}}	\arp>	8
34	Interfacial Impregnation Chemistry in the Synthesis of Molybdenum Catalysts Supported on Titania. Journal of Physical Chemistry C, 2010, 114, 11868-11879.	3.1	31
35	Temperature – dependent evolution of molecular configurations of oxomolybdenum species on MoO3/TiO2 catalysts monitored by in situ Raman spectroscopy. Studies in Surface Science and Catalysis, 2010, 175, 613-616.	1.5	6
36	Dinuclear complex formation in TaCl5–AlCl3 molten mixtures: Vibrational modes and thermodynamics. Vibrational Spectroscopy, 2009, 49, 258-264.	2.2	2

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37	Propane oxidative dehydrogenation over vanadia catalysts supported on mesoporous silicas with varying pore structure and size. Catalysis Today, 2009, 141, 245-253.	4.4	51
38	Cobalt oxide supported on alumina catalysts prepared by various methods for use in catalytic afterburner of PEM fuel cell. Catalysis Today, 2009, 143, 38-44.	4.4	46
39	Thermodynamic Analysis of Reaction Equilibria in Ionic and Molecular Liquid Systems by High-Temperature Raman Spectroscopy. Applied Spectroscopy, 2009, 63, 1050-1056.	2.2	Ο
40	Molecular structure and activity of molybdena catalysts supported on zirconia for ethane oxidative dehydrogenation studied by operando Raman spectroscopy. Journal of Catalysis, 2008, 260, 178-187.	6.2	49
41	Thermal Dissociation of Molten KHSO ₄ : Temperature Dependence of Raman Spectra and Thermodynamics. Journal of Physical Chemistry B, 2008, 112, 11996-12000.	2.6	22
42	Support effects on structure and activity of molybdenum oxide catalysts for the oxidative dehydrogenation of ethane. Catalysis Today, 2007, 127, 139-147.	4.4	65
43	Vanadia-based SCR catalysts supported on tungstated and sulfated zirconia: Influence of doping with potassium. Journal of Catalysis, 2007, 251, 459-473.	6.2	91
44	Molecular structure and catalytic activity of V2O5/TiO2 catalysts for the SCR of NO by NH3: In situ Raman spectra in the presence of O2, NH3, NO, H2, H2O, and SO2. Journal of Catalysis, 2006, 239, 1-12.	6.2	174
45	Particle size effects on the reducibility of titanium dioxide and its relation to the water–gas shift activity of Pt/TiO2 catalysts. Journal of Catalysis, 2006, 240, 114-125.	6.2	245
46	An operando Raman study of structure and reactivity of alumina-supported molybdenum oxide catalysts for the oxidative dehydrogenation of ethane. Journal of Catalysis, 2006, 242, 16-25.	6.2	99
47	Establishing the gas phase dimerization of niobium(V) fluoride and tantalum(V) fluoride by quantitative Raman spectroscopy. Vibrational Spectroscopy, 2005, 37, 133-139.	2.2	12
48	Molecular structure and reactivity of vanadia-based catalysts for propane oxidative dehydrogenation studied by in situ Raman spectroscopy and catalytic activity measurements. Journal of Catalysis, 2004, 222, 293-306.	6.2	145
49	Vanadia?silica and vanadia?cesium?silica catalysts for oxidation of SO2. Journal of Catalysis, 2004, 225, 24-36.	6.2	13
50	Crystal Structure and Spectroscopic Properties of CsVO2SO4. Inorganic Chemistry, 2004, 43, 3697-3701.	4.0	21
51	Oxidation of sulfur dioxide over supported solid V2O5/SiO2 and supported molten salt V2O5?Cs2SO4/SiO2 catalysts: molecular structure and reactivity. Journal of Catalysis, 2004, 225, 337-337.	6.2	2
52	Selective catalytic reduction of NO with NH3 over mesoporous V2O5–TiO2–SiO2 catalysts. Journal of Catalysis, 2003, 217, 172-172.	6.2	60
53	Crystal Structure and Spectroscopic Properties of Na2K6(VO)2(SO4)7. Inorganic Chemistry, 2002, 41, 2417-2421.	4.0	15
54	Structure of Vanadium Oxosulfato Complexes in V2O5â^'M2S2O7â^'M2SO4 (M = K, Cs) Melts. A High Temperature Spectroscopic Study. Journal of Physical Chemistry B, 2002, 106, 49-56.	2.6	25

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55	NO reduction with NH3 over chromia–vanadia catalysts supported on TiO2: an in situ Raman spectroscopic study. Catalysis Today, 2002, 73, 255-262.	4.4	12
56	First In Situ Raman Study of Vanadium Oxide Based SO2 Oxidation Supported Molten Salt Catalysts. Catalysis Letters, 2002, 78, 209-214.	2.6	24
57	Rhenium(III) chloride vaporisation and vapor complexation in the rhenium(III) chloride–aluminium(III) chloride systemElectronic Supplementary Information available. See http://www.rsc.org/suppdata/cp/b1/b106326j/. Physical Chemistry Chemical Physics, 2001, 3, 5208-5212.	2.8	4
58	CoCl+: Unique in all of molten saltdom?. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 597-602.	2.1	0
59	SO2 and NOx emission abatement. Green Chemistry, 2000, 2, G26-G27.	9.0	0
60	Electrochemical and Spectroscopic Investigations of the  K 2 SO 4 â€â€‰â€‰V 2â the Electrochemical Society, 1999, 146, 1060-1068.	i€%2 <u>9</u> â€%	5 Molten Ele
61	Progress on the mechanistic understanding of SO2 oxidation catalysts. Catalysis Today, 1999, 51, 469-479.	4.4	92
62	Determination of Stoichiometry of Solutes in Molten Salt Solvents by Correlations of Relative Raman Band Intensities. Applied Spectroscopy, 1999, 53, 565-571.	2.2	12
63	Crystal Structure and Spectroscopic Characterization of a Green V(IV) Compound, Na8(VO)2(SO4)6 Acta Chemica Scandinavica, 1999, 53, 15-23.	0.7	24
64	Vibrational modes and structure of vanadium(V) complexes in M2SO4–V2O5 (M=K or Cs) molten salt mixtures. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3463-3469.	1.7	22
65	Catalytic Activity and Deactivation of SO2Oxidation Catalysts in Simulated Power Plant Flue Gases. Journal of Catalysis, 1997, 166, 16-24.	6.2	25
66	Vanadium (V) complexes in molten salts of interest for the catalytic oxidation of sulphur dioxide. Catalysis Letters, 1997, 48, 145-150.	2.6	32
67	Chapter 157 Halide vapors and vapor complexes. Fundamental Theories of Physics, 1996, 23, 435-496.	0.3	16
68	Deactivation and Compound Formation in Sulfuric-Acid Catalysts and Model Systems. Journal of Catalysis, 1995, 155, 32-42.	6.2	50
69	Synthesis, Crystal Structure Redetermination and Vibrational Spectra of beta-VOSO4 Acta Chemica Scandinavica, 1995, 49, 703-708.	0.7	37
70	Vapour complexation and thermochemistry over Nal-TbI3 mixtures: a mass spectrometric investigation. Polyhedron, 1994, 13, 1639-1646.	2.2	7
71	Conductivity and Phase-Diagram of the SO2 Oxidation Catalyst Model System: M2S2O7-V2O5 (M=80% K) Tj E	[Qq]] 0.7	784314 rgBT
72	Raman spectra of liquids and glasses in the RCl3î—,AlCl3 (Rî—»Nd, Gd) systems. Journal of Non-Crystalline Solids, 1994, 180, 88-90.	3.1	12

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73	Synthesis and Crystal Structure of Na3V(SO4)3. Spectroscopic Characterization of Na3V(SO4)3 and NaV(SO4)2 Acta Chemica Scandinavica, 1994, 48, 724-731.	0.7	30
74	Characterization of vapour complexes over molten POCl3-MCl3 (M = Al, Ga) mixtures: Raman spectra and thermodynamics. Polyhedron, 1993, 12, 771-782.	2.2	13
75	Raman spectroscopic characterization of high temperature MGaCl8 (M = Nb, Ta) dinuclear molecular complexes in the liquid and gaseous state. Polyhedron, 1993, 12, 2965-2971.	2.2	3
76	Crystal structure and spectroscopic characterization of cesium vanadium sulfate CsV(SO4)2. Evidence for an electronic Raman transition. Inorganic Chemistry, 1993, 32, 4714-4720.	4.0	30
77	Vaporization and vapor complexation in the gold(III) chloride-aluminum(III) chloride system. Inorganic Chemistry, 1992, 31, 1769-1773.	4.0	15
78	Oxide Complexes in AlkaliAlkaline-Earth Chloride Melts Acta Chemica Scandinavica, 1991, 45, 145-157.	0.7	59
79	The Crystal Structure of NaV(SO4)2 Acta Chemica Scandinavica, 1991, 45, 961-964.	0.7	23
80	Crystal structure and vibrational spectra of disodium oxo(disulfato)vanadate. Inorganic Chemistry, 1990, 29, 3294-3298.	4.0	22
81	Formation of crystalline compounds and catalyst deactivation during SO2 oxidation in V2O5\$z.sbnd;M2S2O7 (M = Na, K, Cs) melts. Journal of Catalysis, 1989, 119, 121-134.	6.2	55
82	In situ high temperature SERS study of Ag catalysts and electrodes during ethylene epoxidation. Journal of Catalysis, 1989, 117, 561-565.	6.2	20
83	Crystal structure and infrared and Raman spectra of potassium vanadyl sulfate (K4(VO)3(SO4)5). Inorganic Chemistry, 1989, 28, 1847-1853.	4.0	33
84	Evaluation of stoichiometric coefficients and thermodynamic functions of vapor complexes using Raman spectroscopy: the systems ZrX4-AlX3 (X = Br, Cl). The Journal of Physical Chemistry, 1989, 93, 415-421.	2.9	39
85	Raman spectroscopic studies of vapor complexation in the MCl4-POCl3 and MCl4-AlCl3 (M = Zr or Hf) binary systems. Polyhedron, 1986, 5, 1393-1403.	2.2	13