

S Roger Qiu

List of Publications by Year in descending order

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29
papers

1,417
citations

516710

16
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and interpretable graph network representation for angle-dependent properties applied to optical spectroscopy. Npj Computational Materials, 2022, 8, .	8.7	13
2	Investigation of UV, ns-laser damage resistance of hafnia films produced by electron beam evaporation and ion beam sputtering deposition methods. Journal of Applied Physics, 2021, 130, 043103.	2.5	2
3	Mirrors for petawatt lasers: Design principles, limitations, and solutions. Journal of Applied Physics, 2020, 128, .	2.5	9
4	Origin and effect of film sub-stoichiometry on ultraviolet, ns-laser damage resistance of hafnia single layers. Optical Materials Express, 2020, 10, 937.	3.0	9
5	The impact of nano-bubbles on the laser performance of hafnia films deposited by oxygen assisted ion beam sputtering method. Applied Physics Letters, 2019, 115, .	3.3	16
6	The effects of different types of additives on growth of biomineral phases investigated by in situ atomic force microscopy. Journal of Crystal Growth, 2019, 509, 8-16.	1.5	7
7	Dynamics of secondary contamination from the interaction of high-power laser pulses with metal particles attached on the input surface of optical components. Optics Express, 2019, 27, 23515.	3.4	11
8	Switchable Chiral Selection of Aspartic Acids by Dynamic States of Brushite. Journal of the American Chemical Society, 2017, 139, 8562-8569.	13.7	16
9	Shape dependence of laser-induced particle interaction-induced damage on the protective capping layer of 1% high reflector mirror coatings. Optical Engineering, 2016, 56, 011108.	1.0	8
10	Impact of laser-contaminant interaction on the performance of the protective capping layer of 1% high-reflection mirror coatings. Applied Optics, 2015, 54, 8607.	2.1	32
11	Origins of optical absorption characteristics of Cu ²⁺ complexes in aqueous solutions. Physical Chemistry Chemical Physics, 2015, 17, 18913-18923.	2.8	19
12	Growth inhibition of calcium oxalate monohydrate crystal by linear aspartic acid enantiomers investigated by in situ atomic force microscopy. CrystEngComm, 2013, 15, 54-64.	2.6	33
13	Amelogenin Processing by MMP-20 Prevents Protein Occlusion Inside Calcite Crystals. Crystal Growth and Design, 2012, 12, 4897-4905.	3.0	11
14	Impact of Chiral Molecules on the Formation of Biominerals: A Calcium Oxalate Monohydrate Example. Crystal Growth and Design, 2012, 12, 5939-5947.	3.0	21
15	Searching for optimal mitigation geometries for laser-resistant multilayer high-reflector coatings. Applied Optics, 2011, 50, C373.	2.1	24
16	Integration of atomic force microscopy and a microfluidic liquid cell for aqueous imaging and force spectroscopy. Review of Scientific Instruments, 2010, 81, 053704.	1.3	9
17	Subnanometer atomic force microscopy of peptide-mineral interactions links clustering and competition to acceleration and catastrophe. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11-15.	7.1	99
18	Impact of substrate surface scratches on the laser damage resistance of multilayer coatings. , 2010, .		10

#	ARTICLE	IF	CITATIONS
19	Modeling of light intensification by conical pits within multilayer high reflector coatings. , 2009, , .		8
20	Rethinking Classical Crystal Growth Models through Molecular Scale Insights: Consequences of Kink-Limited Kinetics. Crystal Growth and Design, 2009, 9, 5135-5144.	3.0	162
21	Dynamics of Biomineral Formation at the Near-Molecular Level. Chemical Reviews, 2008, 108, 4784-4822.	47.7	96
22	Inhibition of calcium oxalate monohydrate growth by citrate and the effect of the background electrolyte. Journal of Crystal Growth, 2007, 306, 135-145.	1.5	86
23	Constant Composition Studies Verify the Utility of the CabreraâVermilyea (C-V) Model in Explaining Mechanisms of Calcium Oxalate Monohydrate Crystallization. Crystal Growth and Design, 2006, 6, 1769-1775.	3.0	31
24	Inhibition of calcium oxalate monohydrate crystallization by the combination of citrate and osteopontin. Journal of Crystal Growth, 2006, 291, 160-165.	1.5	62
25	Improved Model for Inhibition of Pathological Mineralization Based on CitrateâCalcium Oxalate Monohydrate Interaction. ChemPhysChem, 2006, 7, 2081-2084.	2.1	45
26	Molecular modulation of calcium oxalate crystallization. American Journal of Physiology - Renal Physiology, 2006, 291, F1123-F1132.	2.7	80
27	Acceleration of Calcite Kinetics by Abalone Nacre Proteins. Advanced Materials, 2005, 17, 2678-2683.	21.0	123
28	Modulation of Calcium Oxalate Monohydrate Crystallization by Citrate through Selective Binding to Atomic Steps. Journal of the American Chemical Society, 2005, 127, 9036-9044.	13.7	117
29	Molecular modulation of calcium oxalate crystallization by osteopontin and citrate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1811-1815.	7.1	258