

Silvia Romano

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

778
citations

759233

12
h-index

794594

19
g-index

33
all docs

33
docs citations

33
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free sensing of ultralow-weight molecules with all-dielectric metasurfaces supporting bound states in the continuum. <i>Photonics Research</i> , 2018, 6, 726.	7.0	209
2	Refractive index sensing with optical bound states in the continuum. <i>Optics Express</i> , 2020, 28, 38907.	3.4	90
3	Optical Biosensors Based on Photonic Crystals Supporting Bound States in the Continuum. <i>Materials</i> , 2018, 11, 526.	2.9	89
4	Surface-Enhanced Raman and Fluorescence Spectroscopy with an All-Dielectric Metasurface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19738-19745.	3.1	75
5	Tuning the exponential sensitivity of a bound-state-in-continuum optical sensor. <i>Optics Express</i> , 2019, 27, 18776.	3.4	71
6	Ultrasensitive Surface Refractive Index Imaging Based on Quasi-Bound States in the Continuum. <i>ACS Nano</i> , 2020, 14, 15417-15427.	14.6	67
7	Giant field enhancement in photonic resonant lattices. <i>Physical Review B</i> , 2015, 92, .	3.2	52
8	Observation of spin-polarized directive coupling of light at bound states in the continuum. <i>Optica</i> , 2019, 6, 1305.	9.3	29
9	Guided resonance in negative index photonic crystals: a new approach. <i>Light: Science and Applications</i> , 2014, 3, e120-e120.	16.6	19
10	Label-free DNA biosensing by topological light confinement. <i>Nanophotonics</i> , 2021, 10, 4279-4287.	6.0	18
11	Patterning of electrically tunable light-emitting photonic structures demonstrating bound states in the continuum. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, .	1.2	16
12	Plasmon-like surface states in negative refractive index photonic crystals. <i>Applied Physics Letters</i> , 2013, 102, 081113.	3.3	14
13	Chemically exfoliated graphene detects NO ₂ at the ppb level. <i>Procedia Engineering</i> , 2011, 25, 1145-1148.	1.2	11
14	Normal-State Optical Features Study of Nd ₁₂₃ and Gd ₁₂₁₂ HTSC Materials for Photonics and Metamaterials Fabrication. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.7	4
15	High T _c superconductors for plasmonics and metamaterials fabrication: A preliminary normal state optical characterisation of Nd ₁₂₃ and Gd ₁₂₁₂ . <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	2
16	High T _c Superconducting Materials for Photonics: Normal State Optical Features Study of Nd ₁₂₃ and Gd ₁₂₁₂ . , 2015, , .		2
17	Optical sensors based on photonic crystal: a new route. , 2017, , .		2
18	UV Lithography On Graphene Flakes Produced By Highly Oriented Pyrolytic Graphite Exfoliation Through Polydimethylsiloxane Rubbing. <i>Carbon Nanostructures</i> , 2012, , 187-193.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Superconductors in plasmonics and metamaterials: some experimental data. , 2013, , .		1
20	Observation of resonant states in negative refractive photonic crystals. Journal of the European Optical Society-Rapid Publications, 0, 9, .	1.9	1
21	Bound-state in the continuum of a photonic crystal metasurface: a platform for ultrasensitive sensing and near field amplification. Journal of Physics: Conference Series, 2020, 1461, 012138.	0.4	1
22	Enhancing light-matter interaction in all-dielectric photonic crystal metasurfaces. , 2019, , .		1
23	Negative index resonant states: a route toward nonmetal plasmonics and metamaterials. , 2013, , .		0
24	New insight in guided resonances with negative refracting photonic crystals. , 2013, , .		0
25	The negative refraction under out-of-plane incident condition: an experimental study. , 2014, , .		0
26	Giant field enhancement in structured dielectrics film. , 2014, , .		0
27	High field enhancement factors in photonic nanostructures. , 2015, , .		0
28	Dielectric negative index metamaterial as plasmonics devices. Proceedings of SPIE, 2015, , .	0.8	0
29	High-field enhancement factor in dielectric photonic structures. Proceedings of SPIE, 2015, , .	0.8	0
30	Enhanced fluorescence emission using bound states in continuum in a photonic crystal membrane. , 2017, , .		0
31	Quantum spin Hall effect in bound states in continuum. , 2019, , .		0