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condensed-matter physics and nanoscien…

	All	Since 2014
Citations	18357	11220
h-index	70	56
i10-index	179	143

TITLE	CITED BY	YEAR
DNA-based self-assembly of chiral plasmonic nanostructures with tailored optical response A Kuzyk, R Schreiber, Z Fan, G Pardatscher, EM Roller, A Högele, ... Nature	1282	2012
Spectroscopy of nanoscopic semiconductor rings A Lorke, R Johannes Luyken, AO Govorov, JP Kotthaus, JM García, ... Physical review letters 84 (10), 2223-2226	974	2000
Generating heat with metal nanoparticles AO Govorov, HH Richardson Nano today 2 (1), 30-38	924	2007
Exciton− plasmon interaction and hybrid excitons in semiconductor− metal nanoparticle assemblies AO Govorov, GW Bryant, W Zhang, T Skeini, J Lee, NA Kotov, JM Slocik, ... Nano letters 6 (5), 984-994	509	2006
Semiconductor-metal nanoparticle molecules: Hybrid excitons and the nonlinear Fano effect W Zhang, AO Govorov, GW Bryant Physical review letters 97 (14), 146804	497	2006
Gold nanoparticle ensembles as heaters and actuators: melting and collective plasmon resonances AO Govorov, W Zhang, T Skeini, H Richardson, J Lee, NA Kotov Nanoscale Research Letters 1 (1), 84-90	471	2006
Experimental and theoretical studies of light-to-heat conversion and collective heating effects in metal nanoparticle solutions HH Richardson, MT Carlson, PJ Tandler, P Hernandez, AO Govorov Nano letters 9 (3), 1139	406	2009
Bioconjugates of CdTe nanowires and Au nanoparticles: plasmon− exciton interactions, luminescence enhancement, and collective effects J Lee, AO Govorov, J Dulka, NA Kotov Nano Letters 4 (12), 2323-2330	391	2004
Plasmonic circular dichroism of chiral metal nanoparticle assemblies Z Fan, AO Govorov Nano letters 10 (7), 2580-2587	348	2010
Theory of circular dichroism of nanomaterials comprising chiral molecules and nanocrystals: plasmon enhancement, dipole interactions, and dielectric	341	2010

TITLE	CITED BY	YEAR
effects AO Govorov, Z Fan, P Hernandez, JM Slocik, RR Naik Nano letters 10 (4), 1374-1382		
Exciton–plasmon interactions in molecular spring assemblies of nanowires and wavelength-based protein detection J Lee, P Hernandez, J Lee, AO Govorov, NA Kotov Nature materials 6 (4), 291	329	2007
Reconfigurable 3D plasmonic metamolecules A Kuzyk, R Schreiber, H Zhang, AO Govorov, T Liedl, N Liu Nature materials 13 (9), 862	307	2014
Theory of photoinjection of hot plasmonic carriers from metal nanostructures into semiconductors and surface molecules AO Govorov, H Zhang, YK Gun'ko The Journal of Physical Chemistry C 117 (32), 16616-16631	300	2013
Theory of plasmon-enhanced Förster energy transfer in optically excited semiconductor and metal nanoparticles AO Govorov, J Lee, NA Kotov Physical Review B 76 (12), 125308	277	2007
Thermooptical properties of gold nanoparticles embedded in ice: characterization of heat generation and melting HH Richardson, ZN Hickman, AO Govorov, AC Thomas, W Zhang, ... Nano letters 6 (4), 783-788	261	2006
Plasmonic circular dichroism of peptide-functionalized gold nanoparticles JM Slocik, AO Govorov, RR Naik Nano letters 11 (2), 701-705	244	2011
Polarized excitons in nanorings and the optical Aharonov-Bohm effect AO Govorov, SE Ulloa, K Karrai, RJ Warburton Physical Review B 66 (8), 081309	207	2002
Hybrid structures composed of photosynthetic system and metal nanoparticles: plasmon enhancement effect AO Govorov, I Carmeli Nano letters 7 (3), 620-625	198	2007
Coherent control of tunneling in a quantum dot molecule JM Villas-Bôas, AO Govorov, SE Ulloa Physical Review B 69 (12), 125342	198	2004
Plexciton dynamics: exciton− plasmon coupling in a J-aggregate− Au nanoshell complex provides a mechanism for nonlinearity NT Fofang, NK Grady, Z Fan, AO Govorov, NJ Halas Nano letters 11 (4), 1556-1560	195	2011

TITLE	CITED BY	YEAR
The nonlinear Fano effect M Kroner, AO Govorov, S Remi, B Biedermann, S Seidl, A Badolato, ... Nature 451 (7176), 311	191	2008
Optical properties of coupled metal-semiconductor and metal-molecule nanocrystal complexes: Role of multipole effects JY Yan, W Zhang, S Duan, XG Zhao, AO Govorov Physical Review B 77 (16), 165301	190	2008
Voltage control of the spin dynamics of an exciton in a semiconductor quantum dot JM Smith, PA Dalgarno, RJ Warburton, AO Govorov, K Karrai, ... Physical review letters 94 (19), 197402	189	2005
Chirality and chiroptical effects in inorganic nanocrystal systems with plasmon and exciton resonances A Ben-Moshe, BM Maoz, AO Govorov, G Markovich Chemical Society Reviews 42 (16), 7028-7041	173	2013
Bioconjugated superstructures of CdTe nanowires and nanoparticles: Multistep cascade Förster resonance energy transfer and energy channeling J Lee, AO Govorov, NA Kotov Nano letters 5 (10), 2063-2069	170	2005
Photogeneration of hot plasmonic electrons with metal nanocrystals: Quantum description and potential applications AO Govorov, H Zhang, HV Demir, YK Gun'ko Nano Today 9 (1), 85-101	166	2014
Chiral plasmonic DNA nanostructures with switchable circular dichroism R Schreiber, N Luong, Z Fan, A Kuzyk, PC Nickels, T Zhang, DM Smith, ... Nature communications 4, 2948	166	2013
Chiral nanoparticle assemblies: circular dichroism, plasmonic interactions, and exciton effects AO Govorov, YK Gun'ko, JM Slocik, VA Gérard, Z Fan, RR Naik Journal of Materials Chemistry 21 (42), 16806-16818	158	2011
Circularly polarized light detection with hot electrons in chiral plasmonic metamaterials W Li, ZJ Coppens, L Vázquez, W Wang, AO Govorov, J Valentine Nature Communications 6, 8379 (2015)	152	2015
Aharonov-Bohm signature for neutral polarized excitons in type-II quantum dot ensembles E Ribeiro, AO Govorov, W Carvalho Jr, G Medeiros-Ribeiro Physical review letters 92 (12), 126402	147	2004
Harvesting Lost Photons: Plasmon and Upconversion Enhanced Broadband Photocatalytic Activity in Core@Shell Microspheres Based on Lanthanide-	145	2015

TITLE	CITED BY	YEAR
Doped $NaYF_4$, TiO … Z Xu, M Quintanilla, F Vetrone, AO Govorov, M Chaker, D Ma Advanced Functional Materials 25 (20), 2950-2960		
Metal-enhanced fluorescence of chlorophylls in single light-harvesting complexes S Mackowski, S Wörmke, AJ Maier, THP Brotosudarmo, H Harutyunyan, ... Nano letters 8 (2), 558-564	145	2008
Shedding light on vacancy-doped copper chalcogenides: shape-controlled synthesis, optical properties, and modeling of copper telluride nanocrystals with near-infrared plasmon … I Kriegel, J Rodríguez-Fernández, A Wisnet, H Zhang, C Waurisch, ... ACS nano 7 (5), 4367-4377	141	2013
The dynamics of tunneling into self-assembled InAs dots RJ Luyken, A Lorke, AO Govorov, JP Kotthaus, G Medeiros-Ribeiro, ... Applied physics letters 74 (17), 2486-2488	139	1999
Hybridization of electronic states in quantum dots through photon emission K Karrai, RJ Warburton, C Schulhauser, A Högele, B Urbaszek, ... Nature 427 (6970), 135	135	2004
Anomalous ultrafast dynamics of hot plasmonic electrons in nanostructures with hot spots H Harutyunyan, ABF Martinson, D Rosenmann, LK Khorashad, ... Nature nanotechnology 10 (9), 770	134	2015
Induced chirality through electromagnetic coupling between chiral molecular layers and plasmonic nanostructures NA Abdulrahman, Z Fan, T Tonooka, SM Kelly, N Gadegaard, E Hendry, ... Nano letters 12 (2), 977-983	131	2012
Fluorescent quantum dots as artificial antennas for enhanced light harvesting and energy transfer to photosynthetic reaction centers I Nabiev, A Rakovich, A Sukhanova, E Lukashev, V Zagidullin, ... Angewandte Chemie International Edition 49 (40), 7217-7221	128	2010
Plasmon-induced circular dichroism of a chiral molecule in the vicinity of metal nanocrystals. Application to various geometries AO Govorov The Journal of Physical Chemistry C 115 (16), 7914-7923	127	2011
Decoherence of Rabi oscillations in a single quantum dot JM Villas-Bôas, SE Ulloa, AO Govorov Physical review letters 94 (5), 57404	122	2005
Amplification of chiroptical activity of chiral biomolecules by surface plasmons BM Maoz, Y Chaikin, AB Tesler, O Bar Elli, Z Fan, AO Govorov, ... Nano letters 13 (3), 1203-1209	121	2013

TITLE	CITED BY	YEAR
Optical properties of a semiconductor quantum dot with a single magnetic impurity: photoinduced spin orientation AO Govorov, AV Kalameitsev Physical Review B 71 (3), 035338	118	2005
Bioconjugated Ag Nanoparticles and CdTe Nanowires: Metamaterials with Field-Enhanced Light Absorption J Lee, T Javed, T Skeini, AO Govorov, GW Bryant, NA Kotov Angewandte Chemie International Edition 45 (29), 4819-4823	117	2006
Discrete nanocubes as plasmonic reporters of molecular chirality F Lu, Y Tian, M Liu, D Su, H Zhang, AO Govorov, O Gang Nano letters 13 (7), 3145-3151	112	2013
A light-driven three-dimensional plasmonic nanosystem that translates molecular motion into reversible chiroptical function A Kuzyk, Y Yang, X Duan, S Stoll, AO Govorov, H Sugiyama, M Endo, ... Nature communications 7, 10591	110	2016
Picosecond energy transfer and multiexciton transfer outpaces Auger recombination in binary CdSe nanoplatelet solids CE Rowland, I Fedin, H Zhang, SK Gray, AO Govorov, DV Talapin, ... Nature materials 14 (5), 484	110	2015
Optical generation of hot plasmonic carriers in metal nanocrystals: the effects of shape and field enhancement H Zhang, AO Govorov The Journal of Physical Chemistry C 118 (14), 7606-7614	107	2014
Chiral nanocrystals: plasmonic spectra and circular dichroism Z Fan, AO Govorov Nano letters 12 (6), 3283-3289	107	2012
Charge conveyance and nonlinear acoustoelectric phenomena for intense surface acoustic waves on a semiconductor quantum well M Rotter, AV Kalameitsev, AO Govorov, W Ruile, A Wixforth Physical review letters 82 (10), 2171-2174	107	1999
Helical Metal Nanoparticle Assemblies with Defects: Plasmonic Chirality and Circular Dichroism Z Fan, AO Govorov The Journal of Physical Chemistry C 115 (27), 13254-13261	106	2011
Giant circular dichroism of a molecule in a region of strong plasmon resonances between two neighboring gold nanocrystals H Zhang, AO Govorov Physical Review B 87 (7), 075410	100	2013
Broad band enhancement of light absorption in photosystem I by metal nanoparticle antennas I Carmeli, I Lieberman, L Kraversky, Z Fan, AO Govorov, G Markovich, ...	98	2010

TITLE	CITED BY	YEAR
Nano letters 10 (6), 2069-2074		
Powering the programmed nanostructure and function of gold nanoparticles with catenated DNA machines J Elbaz, A Cecconello, Z Fan, AO Govorov, I Willner Nature communications 4, 2000	95	2013
Optical properties of two interacting electrons in quantum rings: optical absorption and inelastic light scattering L Wendler, VM Fomin, AV Chaplik, AO Govorov Physical Review B 54 (7), 4794	91	1996
Aharonov-Bohm excitons at elevated temperatures in type-II ZnTe/ZnSe quantum dots IR Sellers, VR Whiteside, IL Kuskovsky, AO Govorov, BD McCombe Physical review letters 100 (13), 136405	89	2008
Chiral plasmonic nanostructures on achiral nanopillars B Yeom, H Zhang, H Zhang, JI Park, K Kim, AO Govorov, NA Kotov Nano letters 13 (11), 5277-5283	86	2013
Theory of chiral plasmonic nanostructures comprising metal nanocrystals and chiral molecular media AO Govorov, Z Fan ChemPhysChem 13 (10), 2551-2560	86	2012
Quantum theory of the nonlinear Fano effect in hybrid metal-semiconductor nanostructures: The case of strong nonlinearity W Zhang, AO Govorov Physical Review B 84 (8), 081405	81	2011
Optical Aharonov-Bohm effect in stacked type-II quantum dots IL Kuskovsky, W MacDonald, AO Govorov, L Mourokh, X Wei, ... Physical Review B 76 (3), 035342	81	2007
Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings F Ding, N Akopian, B Li, U Perinetti, A Govorov, FM Peeters, CCB Bufon, ... Physical Review B 82 (7), 075309	79	2010
Boosting Hot Electron-Driven Photocatalysis through Anisotropic Plasmonic Nanoparticles with Hot Spots in Au–TiO_2 Nanoarchitectures A Sousa-Castillo, M Comesaña-Hermo, B Rodríguez-González, ... The Journal of Physical Chemistry C 120 (21), 11690-11699	78	2016
Plasmonic chiroptical response of silver nanoparticles interacting with chiral supramolecular assemblies BM Maoz, R van der Weegen, Z Fan, AO Govorov, G Ellestad, N Berova, ... Journal of the American Chemical Society 134 (42), 17807-17813	78	2012

TITLE	CITED BY	YEAR
DNA-assembled nanoparticle rings exhibit electric and magnetic resonances at visible frequencies EM Roller, LK Khorashad, M Fedoruk, R Schreiber, AO Govorov, T Liedl Nano letters 15 (2), 1368-1373	77	2015
What's so hot about electrons in metal nanoparticles? GV Hartland, LV Besteiro, P Johns, AO Govorov ACS Energy Letters 2 (7), 1641-1653	76	2017
Enantioselective control of lattice and shape chirality in inorganic nanostructures using chiral biomolecules A Ben-Moshe, SG Wolf, MB Sadan, L Houben, Z Fan, AO Govorov, ... Nature communications 5, 4302	76	2014
Impurity effects on the Aharonov-Bohm optical signatures of neutral quantum-ring magnetoexcitons LD da Silva, SE Ulloa, AO Govorov Physical Review B 70 (15), 155318	74	2004
Lateral superlattices as voltage-controlled traps for excitons S Zimmermann, AO Govorov, W Hansen, JP Kotthaus, M Bichler, ... Physical Review B 56 (20), 13414	74	1997
Magneto-optical properties of charged excitons in quantum dots C Schulhauser, D Haft, RJ Warburton, K Karrai, AO Govorov, ... Physical Review B 66 (19), 193303	73	2002
Near infrared, highly efficient luminescent solar concentrators Y Zhou, D Benetti, Z Fan, H Zhao, D Ma, AO Govorov, A Vomiero, F Rosei Advanced Energy Materials 6 (11), 1501913	72	2016
Spin-Förster transfer in optically excited quantum dots AO Govorov Physical Review B 71 (15), 155323	71	2005
Spin-polarized reflection in a two-dimensional electron system H Chen, JJ Heremans, JA Peters, AO Govorov, N Goel, SJ Chung, ... Applied Physics Letters 86 (3), 032113	69	2005
Spin and energy transfer in nanocrystals without tunneling AO Govorov Physical Review B 68 (7), 075315	69	2003
Magnetoexcitons in type-II quantum dots AB Kalameitsev, VM Kovalev, AO Govorov JETP Letters 68 (8), 669-672	69	1998
Optical probing of the spin state of a single magnetic impurity in a self-assembled quantum dot AO Govorov Physical Review B 70 (3), 035321	68	2004

TITLE	CITED BY	YEAR
Many-body dynamics of exciton creation in a quantum dot by optical absorption: A quantum quench towards kondo correlations HE Türeci, M Hanl, M Claassen, A Weichselbaum, T Hecht, B Braunecker, ... Physical review letters 106 (10), 107402	67	2011
Plasmon-induced CD response of oligonucleotide-conjugated metal nanoparticles VA Gerard, YK Gun'Ko, E Defrancq, AO Govorov Chemical Communications 47 (26), 7383-7385	66	2011
Voltage-tunable ferromagnetism in semimagnetic quantum dots with few particles: magnetic polarons and electrical capacitance AO Govorov Physical Review B 72 (7), 075359	66	2005
Hierarchical synthesis of non-centrosymmetric hybrid nanostructures and enabled plasmon-driven photocatalysis L Weng, H Zhang, AO Govorov, M Ouyang Nature communications 5, 4792	62	2014
Confinement and interaction of single indirect excitons in a voltage-controlled trap formed inside double InGaAs quantum wells GJ Schinner, J Repp, E Schubert, AK Rai, D Reuter, AD Wieck, ... Physical review letters 110 (12), 127403	62	2013
Photostimulated Au nanoheaters in polymer and biological media: characterization of mechanical destruction and boiling D Hühn, A Govorov, PR Gil, WJ Parak Advanced Functional Materials 22 (2), 294-303	62	2012
Exciton energy transfer between nanoparticles and nanowires PL Hernández-Martínez, AO Govorov Physical Review B 78 (3), 035314	62	2008
Magneto-optical properties of ring-shaped self-assembled InGaAs quantum dots D Haft, C Schulhauser, AO Govorov, RJ Warburton, K Karrai, JM Garcia, ... Physica E: Low-dimensional Systems and Nanostructures 13 (2-4), 165-169	61	2002
Exciton ionization in a quantum well studied by surface acoustic waves C Rocke, AO Govorov, A Wixforth, G Böhm, G Weimann Physical Review B 57 (12), 6850-6853	61	1998
3D plasmonic chiral colloids X Shen, P Zhan, A Kuzyk, Q Liu, A Asenjo-Garcia, H Zhang, FJG de Abajo, ... Nanoscale 6 (4), 2077-2081	59	2014
Excitonics of semiconductor quantum dots and wires for lighting and displays B Guzelturk, PLH Martinez, Q Zhang, Q Xiong, H Sun, XW Sun, ... Laser & Photonics Reviews 8 (1), 73-93	58	2014

TITLE	CITED BY	YEAR
Many-body exciton states in self-assembled quantum dots coupled to a Fermi sea N Kleemans, J Van Bree, AO Govorov, JG Keizer, GJ Hamhuis, R Nötzel, ... Nature Physics 6 (7), 534-538	58	2010
Enantioselective synthesis of intrinsically chiral mercury sulfide nanocrystals A Ben-Moshe, AO Govorov, G Markovich Angewandte Chemie International Edition 52 (4), 1275-1279	56	2013
Resonant Excitation and Imaging of Nonequilibrium Exciton Spins in Single Core− Shell GaAs− AlGaAs Nanowires TB Hoang, LV Titova, JM Yarrison-Rice, HE Jackson, AO Govorov, Y Kim, ... Nano letters 7 (3), 588-595	56	2007
Nonlinear acoustoelectric interactions in $GaAs/LiNbO_3$ structures M Rotter, A Wixforth, AO Govorov, W Ruile, D Bernklau, H Riechert Applied Physics Letters 75 (7), 965-967	56	1999
Spatially resolved exciton trapping in a voltage-controlled lateral superlattice S Zimmermann, G Schedelbeck, AO Govorov, A Wixforth, JP Kotthaus, ... Applied physics letters 73 (2), 154-156	55	1998
Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride A Naldoni, U Guler, Z Wang, M Marelli, F Malara, X Meng, LV Besteiro, ... Advanced Optical Materials 5 (15), 1601031	54	2017
Optical properties of chiral plasmonic tetramers: circular dichroism and multipole effects Z Fan, H Zhang, AO Govorov The Journal of Physical Chemistry C 117 (28), 14770-14777	53	2013
Broadband efficiency enhancement in quantum dot solar cells coupled with multispiked plasmonic nanostars J Wu, P Yu, AS Susha, KA Sablon, H Chen, Z Zhou, H Li, H Ji, X Niu, ... Nano Energy 13, 827-835	52	2015
Electrostatically trapping indirect excitons in coupled In x Ga 1− x As quantum wells GJ Schinner, E Schubert, MP Stallhofer, JP Kotthaus, D Schuh, AK Rai, ... Physical Review B 83 (16), 165308	52	2011
Photoactivated biotemplated nanoparticles as an enzyme mimic JM Slocik, AO Govorov, RR Naik Angewandte Chemie International Edition 47 (29), 5335-5339	52	2008
Optically induced hybridization of a quantum dot state with a filled continuum PA Dalgarno, M Ediger, BD Gerardot, JM Smith, S Seidl, M Kroner, ... Physical review letters 100 (17), 176801	52	2008

TITLE	CITED BY	YEAR
Stark effect in type-II Ge/Si quantum dots AI Yakimov, AV Dvurechenskii, AI Nikiforov, VV Ulyanov, AG Milekhin, ... Physical Review B 67 (12), 125318	51	2003
Fractal nanoparticle plasmonics: The Cayley tree S Gottheim, H Zhang, AO Govorov, NJ Halas ACS nano 9 (3), 3284-3292	50	2015
Theory of quantum plasmon resonances in doped semiconductor nanocrystals H Zhang, V Kulkarni, E Prodan, P Nordlander, AO Govorov The Journal of Physical Chemistry C 118 (29), 16035-16042	50	2014
Semiconductor-metal nanoparticle molecules in a magnetic field: Spin-plasmon and exciton-plasmon interactions AO Govorov Physical Review B 82 (15), 155322	47	2010
Controlling photoinduced electron transfer from PbS@ CdS core@ shell quantum dots to metal oxide nanostructured thin films H Zhao, Z Fan, H Liang, GS Selopal, BA Gonfa, L Jin, A Soudi, D Cui, ... Nanoscale 6 (12), 7004-7011	46	2014
Optical characterization of bio-assembled hybrid nanostructures JM Slocik, AO Govorov, RR Naik Supramolecular Chemistry 18 (5), 415-421	45	2006
Plasma oscillations in nanotubes and the Aharonov-Bohm effect for plasmons AI Vedernikov, AO Govorov, AV Chaplik Journal of Experimental and Theoretical Physics 93 (4), 853-859	45	2001
Comparison of vapor formation of water at the solid/water interface to colloidal solutions using optically excited gold nanostructures S Baral, AJ Green, MY Livshits, AO Govorov, HH Richardson ACS nano 8 (2), 1439-1448	42	2014
Hotspot-mediated non-dissipative and ultrafast plasmon passage EM Roller, LV Besteiro, C Pupp, LK Khorashad, AO Govorov, T Liedl Nature Physics	41	2017
Generalized Theory of Förster-Type Nonradiative Energy Transfer in Nanostructures with Mixed Dimensionality PL Hernández-Martínez, AO Govorov, HV Demir The Journal of Physical Chemistry C 117 (19), 10203-10212	40	2013
Polarons with a twist W Zhang, AO Govorov, SE Ulloa Physical Review B 66 (6), 060303	39	2002

TITLE	CITED BY	YEAR
Amplified generation of hot electrons and quantum surface effects in nanoparticle dimers with plasmonic hot spots LV Besteiro, AO Govorov The Journal of Physical Chemistry C 120 (34), 19329-19339	37	2016
Excitons in quantum-ring structures in a magnetic field: optical properties and persistent currents AO Govorov, AV Kalameitsev, R Warburton, K Karrai, SE Ulloa Physica E: Low-dimensional Systems and Nanostructures 13 (2-4), 297-300	36	2002
Spin-dependent transport of electrons in the presence of a smooth lateral potential and spin-orbit interaction AO Govorov, AV Kalameitsev, JP Dulka Physical Review B 70 (24), 245310	35	2004
Imaging of acoustic charge transport in semiconductor heterostructures by surface acoustic waves M Streibl, A Wixforth, JP Kotthaus, AO Govorov, C Kadow, AC Gossard Applied Physics Letters 75 (26), 4139-4141	35	1999
Chiroptical activity in silver cholate nanostructures induced by the formation of nanoparticle assemblies ME Layani, A Ben Moshe, M Varenik, O Regev, H Zhang, AO Govorov, ... The Journal of Physical Chemistry C 117 (43), 22240-22244	34	2013
Kondo excitons in self-assembled quantum dots AO Govorov, K Karrai, RJ Warburton Physical Review B 67 (24), 241307	34	2003
Chiroplasmonic DNA-based nanostructures A Cecconello, LV Besteiro, AO Govorov, I Willner Nature Reviews Materials 2 (9), 17039	33	2017
Kinetic density functional theory for plasmonic nanostructures: breaking of the plasmon peak in the quantum regime and generation of hot electrons AO Govorov, H Zhang The Journal of Physical Chemistry C 119 (11), 6181-6194	33	2015
Hydrodynamic effects in interacting Fermi electron jets AO Govorov, JJ Heremans Physical review letters 92 (2), 26803	33	2004
Enhanced Luminescence, Collective Heating, and Nanothermometry in an Ensemble System Composed of Lanthanide-Doped Upconverting Nanoparticles and Gold Nanorods S Rohani, M Quintanilla, S Tuccio, F De Angelis, E Cantelar, AO Govorov, ... Advanced Optical Materials 3 (11), 1606-1613	32	2015
Optical emission and energy transfer in nanoparticle− nanorod assemblies: potential energy pump system for negative refractive index materials A Agarwal, GD Lilly, AO Govorov, NA Kotov	31	2008

TITLE	CITED BY	YEAR
The Journal of Physical Chemistry C 112 (47), 18314-18320		
Optical properties of quantum points in a magnetic field AO Govorov, AV Chaplik Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki 99, 1853-1870	31	1991
Near-Infrared, Heavy Metal-Free Colloidal “Giant” Core/Shell Quantum Dots X Tong, XT Kong, Y Zhou, F Navarro-Pardo, GS Selopal, S Sun, ... Advanced Energy Materials 8 (2), 1701432	29	2018
Dual-band absorber for multispectral plasmon-enhanced infrared photodetection P Yu, J Wu, E Ashalley, A Govorov, Z Wang Journal of Physics D: Applied Physics 49 (36), 365101	29	2016
Thermo-optical responses of nanoparticles: Melting of ice and nanocalorimetry approach HH Richardson, AC Thomas, MT Carlson, ME Kordesch, AO Govorov Journal of Electronic Materials 36 (12), 1587-1593	29	2007
Thomas-Fermi model and ferromagnetic phases of magnetic semiconductor quantum dots AO Govorov Physical Review B 72 (7), 075358	29	2005
Hot plasmonic electrons for generation of enhanced photocurrent in gold-TiO 2 nanocomposites LJ Brennan, F Purcell-Milton, AS Salmeron, H Zhang, AO Govorov, ... Nanoscale research letters 10 (1), 38	28	2015
Phonon-assisted exciton transfer into silicon using nanoemitters: the role of phonons and temperature effects in Förster resonance energy transfer A Yeltik, B Guzelturk, PL Hernandez-Martinez, AO Govorov, HV Demir ACS nano 7 (12), 10492-10501	28	2013
Understanding hot-electron generation and plasmon relaxation in metal nanocrystals: Quantum and classical mechanisms LV Besteiro, XT Kong, Z Wang, G Hartland, AO Govorov ACS Photonics 4 (11), 2759-2781	27	2017
Many-body correlations of electrostatically trapped dipolar excitons GJ Schinner, J Repp, E Schubert, AK Rai, D Reuter, AD Wieck, ... Physical Review B 87 (20), 205302	27	2013
Nonlinear acoustoelectric transport in a two-dimensional electron system AO Govorov, AV Kalameitsev, M Rotter, A Wixforth, JP Kotthaus, ... Physical Review B 62 (4), 2659	27	2000
DNA scaffolds for the dictated assembly of left-/right-handed plasmonic Au NP helices with programmed chiro-optical properties A Cecconello, JS Kahn, CH Lu, L Khosravi Khorashad, AO Govorov, ...	26	2016

TITLE	CITED BY	YEAR
Journal of the American Chemical Society 138 (31), 9895-9901		
Measurement of coherent tunneling between InGaAs quantum wells and InAs quantum dots using photoluminescence spectroscopy YI Mazur, VG Dorogan, D Guzun, E Marega Jr, GJ Salamo, GG Tarasov, ... Physical Review B 82 (15), 155413	26	2010
Magnetoabsorption at quantum points AO Govorov, AV Chaplik JETP Lett 52 (1)	25	1990
Förster-Type Nonradiative Energy Transfer for Assemblies of Arrayed Nanostructures: Confinement Dimension vs Stacking Dimension PL Hernández-Martínez, AO Govorov, HV Demir The Journal of Physical Chemistry C 118 (9), 4951-4958	24	2014
Optophononics with coupled quantum dots ML Kerfoot, AO Govorov, C Czarnocki, D Lu, YN Gad, AS Bracker, ... Nature communications 5, 3299	24	2014
Enhanced optical properties of a photosynthetic system conjugated with semiconductor nanoparticles: the role of Förster transfer AO Govorov Advanced Materials 20 (22), 4330-4335	24	2008
Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect? Z Xu, MG Kibria, B AlOtaibi, PN Duchesne, LV Besteiro, Y Gao, Q Zhang, ... Applied Catalysis B: Environmental 221, 77-85	23	2018
Spatial control of chemical processes on nanostructures through nano-localized water heating C Jack, AS Karimullah, R Tullius, LK Khorashad, M Rodier, B Fitzpatrick, ... Nature communications 7, 10946	23	2016
Cation exchange synthesis and optoelectronic properties of type II CdTe–Cu 2− x Te nano-heterostructures I Kriegel, A Wisnet, ARS Kandada, F Scotognella, F Tassone, C Scheu, ... Journal of Materials Chemistry C 2 (17), 3189-3198	23	2014
Study of exciton transfer in dense quantum dot nanocomposites B Guzelturk, PL Hernandez-Martinez, VK Sharma, Y Coskun, ... Nanoscale 6 (19), 11387-11394	23	2014
Retardation effects in the relaxation of a two-dimensional electron plasma AO Govorov, AV Chaplik Soviet Physics-JETP (English Translation) 68 (6), 1143-1144	23	1989
Plasmonic nanostars with hot spots for efficient generation of hot electrons under solar illumination XT Kong, Z Wang, AO Govorov	22	2016

TITLE	CITED BY	YEAR
Advanced Optical Materials 5 (15)		
Coherent aharonov-bohm oscillations in type-ii (zn, mn) te/znse quantum dots IR Sellers, VR Whiteside, AO Govorov, WC Fan, WC Chou, I Khan, ... Physical Review B 77 (24), 241302	~~22~~	2008
Coherent aharonov-bohm oscillations in type-ii (zn, mn) te/znse quantum dots IR Sellers, VR Whiteside, AO Govorov, WC Fan, WC Chou, I Khan, ... Physical Review B 77 (24), 241302	22	2008
Charged donors in quantum dots: Finite difference and fractional dimensions results C Riva, RA Escorcia, AO Govorov, FM Peeters Physical Review B 69 (24), 245306	22	2004
Cooperative expression of atomic chirality in inorganic nanostructures P Wang, SJ Yu, AO Govorov, M Ouyang Nature communications 8, 14312	21	2017
Giant optical pathlength enhancement in plasmonic thin film solar cells using core-shell nanoparticles P Yu, F Zhang, Z Li, Z Zhong, A Govorov, L Fu, H Tan, C Jagadish, ... Journal of Physics D: Applied Physics 51 (29), 295106	19	2018
Localization of temperature using plasmonic hot spots in metal nanostructures: The Nano-optical antenna approach and Fano effect LK Khorashad, LV Besteiro, Z Wang, J Valentine, AO Govorov arXiv preprint arXiv:1604.03585	18	2016
Plasmon-induced Purcell effect in InN/In metal-semiconductor nanocomposites TV Shubina, AA Toropov, VN Jmerik, DI Kuritsyn, LV Gavrilenko, ... Physical Review B 82 (7), 073304	18	2010
Optical and electronic properties of quantum dots with magnetic impurities AO Govorov Comptes Rendus Physique 9 (8), 857-873	18	2008
Spin polarized photocurrent from quantum dots JM Villas-Bôas, SE Ulloa, AO Govorov Physical Review B 75 (15), 155334	~~18~~	2007
Spin polarized photocurrent from quantum dots JM Villas-Bôas, SE Ulloa, AO Govorov Physical Review B 75 (15), 155334	18	2007
Nonlinear charge spreading visualized in voltage-controlled lateral superlattices J Kraußß, A Wixforth, AV Kalameitsev, AO Govorov, W Wegscheider, ...	18	2002

TITLE	CITED BY	YEAR
Physical review letters 88 (3), 36803		
Solitons in semiconductor microstructures with a two-dimensional electron gas AO Govorov, VM Kovalev, AV Chaplik JETP Letters 70 (7), 488-490	18	1999
Magnetoexcitons in quantum-ring structures: a novel magnetic interference effect SE Ulloa, AO Govorov, AV Kalameitsev, R Warburton, K Karrai Physica E: Low-dimensional Systems and Nanostructures 12 (1-4), 790-793	17	2002
Energy spectra of two interacting electrons in a quantum ring: rotating Wigner molecule L Wendler, VM Fomin, AV Chaplik, AO Govorov Zeitschrift für Physik B Condensed Matter 100 (2), 211-221	17	1996
Enhanced generation and anisotropic Coulomb scattering of hot electrons in an ultra-broadband plasmonic nanopatch metasurface ME Sykes, JW Stewart, GM Akselrod, XT Kong, Z Wang, DJ Gosztola, ... Nature communications 8 (1), 986	16	2017
Plasmonic metamaterials and nanocomposites with the narrow transparency window effect in broad extinction spectra H Zhang, HV Demir, AO Govorov ACS Photonics 1 (9), 822-832	16	2014
Self-induced acoustic transparency in semiconductor quantum films AO Govorov, AV Kalameitsev, VM Kovalev, HJ Kutschera, A Wixforth Physical review letters 87 (22), 226803	16	2001
Interband optical absorption in the Wannier-Stark ladder under the electron-LO-phonon resonance condition AO Govorov Solid state communications 92 (12), 977-982	16	1994
Electronic states in a magnetic quantum-dot molecule: Instabilities and spontaneous symmetry breaking W Zhang, T Dong, AO Govorov Physical Review B 76 (7), 075319	15	2007
Compressible and incompressible stripes in a narrow electron channel D Schmerek, S Manus, AO Govorov, W Hansen, JP Kotthaus, M Holland Physical Review B 54 (19), 13816	15	1996
DNA-guided plasmonic helix with switchable chirality X Lan, T Liu, Z Wang, AO Govorov, H Yan, Y Liu Journal of the American Chemical Society 140 (37), 11763-11770	14	2018
Broadband absorbing exciton–plasmon metafluids with narrow transparency windows	14	2016

TITLE	CITED BY	YEAR
J Yang, NJ Kramer, KS Schramke, LM Wheeler, LV Besteiro, CJ Hogan Jr, ... Nano letters 16 (2), 1472-1477		
Solvent effect in dynamic superstructures from Au nanoparticles and CdTe nanowires: experimental observation and theoretical description J Lee, A Orazbayev, AO Govorov, NA Kotov The Journal of Physical Chemistry C 114 (3), 1404-1410	14	2010
Splitting of transverse optical phonon modes localized in GaAs quantum wires on a faceted (311) A surface VA Volodin, MD Efremov, VY Prints, VV Preobrazhenskii, BR Semyagin, ... JETP Letters 66 (1), 47-51	14	1997
Magnetoplasmon mode in connected quantum-wire pairs WR Frank, AO Govorov, JP Kotthaus, C Steinebach, V Gudmundsson, ... Physical Review B 55 (4), 1950-1953	14	1997
Metamaterial perfect absorber with unabated size-independent absorption P Yu, LV Besteiro, J Wu, Y Huang, Y Wang, AO Govorov, Z Wang Optics express 26 (16), 20471-20480	13	2018
Understanding and Modeling Förster-type Resonance Energy Transfer (FRET): Introduction to FRET A Govorov, PLH Martínez, HV Demir Springer	13	2016
Localization of excess temperature using plasmonic hot spots in metal nanostructures: combining nano-optical antennas with the fano effect L Khosravi Khorashad, LV Besteiro, Z Wang, J Valentine, AO Govorov The Journal of Physical Chemistry C 120 (24), 13215-13226	13	2016
Tunnel ionization of quantum-well magnetoexcitons localized in a lateral trap AO Govorov, W Hansen Physical Review B 58 (19), 12980	13	1998
Photothermal Circular Dichroism Induced by Plasmon Resonances in Chiral Metamaterial Absorbers and Bolometers XT Kong, LK Khorashad, Z Wang, AO Govorov Nano Letters	12	2018
Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production H Zhao, L Jin, Y Zhou, AO Bandar, Z Fan, AO Govorov, Z Mi, S Sun, ... Nanotechnology 27 (49), 495405	12	2016
Dark exciton decay dynamics of a semiconductor quantum dot PA Dalgarno, JM Smith, BD Gerardot, AO Govorov, K Karrai, PM Petroff, ... physica status solidi (a) 202 (14), 2591-2597	12	2005

TITLE	CITED BY	YEAR
Multiply-charged magnetoexcitons in low-dimensional structures AO Govorov, AV Chaplik Journal of Experimental and Theoretical Physics Letters 66 (6), 454-458	12	1997
Resonant light scattering induced by Coulomb interaction in semiconductor microstructures AO Govorov Journal of Physics: Condensed Matter 9 (22), 4681	12	1997
Ferroelectric phase transitions in a molecular-like array of quantum dots AO Govorov, AV Chaplik Journal of Physics: Condensed Matter 6 (32), 6507	12	1994
Orientation-sensitive peptide-induced plasmonic circular dichroism in silver nanocubes T Levi-Belenkova, AO Govorov, G Markovich The Journal of Physical Chemistry C 120 (23), 12751-12756	11	2016
Emission from neutral and charged excitons in a single quantum dot in a magnetic field C Schulhauser, RJ Warburton, A Högele, AO Govorov, K Karrai, ... Physica E: Low-dimensional Systems and Nanostructures 21 (2-4), 184-188	11	2004
Tunable Nonthermal Distribution of Hot Electrons in a Semiconductor Injected from a Plasmonic Gold Nanostructure SK Cushing, CJ Chen, CL Dong, XT Kong, AO Govorov, RS Liu, N Wu ACS nano 12 (7), 7117-7126	10	2018
Controlling Metamaterial Transparency with Superchiral Fields C Kelly, L Khosravi Khorashad, N Gadegaard, LD Barron, AO Govorov, ... ACS Photonics 5 (2), 535-543	10	2017
Aluminum Nanoparticles with Hot Spots for Plasmon-Induced Circular Dichroism of Chiral Molecules in the UV Spectral Interval LV Besteiro, H Zhang, J Plain, G Markovich, Z Wang, AO Govorov Advanced Optical Materials 5 (16), 1700069	10	2017
Nanoparticle assemblies with molecular springs N Kotov, J Lee, A Govorov US Patent 8,080,183	10	2011
Broadband metamaterial absorbers P Yu, LV Besteiro, Y Huang, J Wu, L Fu, HH Tan, C Jagadish, ... Advanced Optical Materials 7 (3)	9	2019
Plasmonic chirality and circular dichroism in bioassembled and nonbiological systems: Theoretical background and recent progress XT Kong, LV Besteiro, Z Wang, AO Govorov Advanced Materials, 1801790	9	2018

TITLE	CITED BY	YEAR
Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal “Giant” Core/Shell Quantum Dots X Tong, XT Kong, C Wang, Y Zhou, F Navarro-Pardo, D Barba, D Ma, ... Advanced Science 5 (8), 1800656	9	2018
Determination of hot carrier energy distributions from inversion of ultrafast pump-probe reflectivity measurements T Heilpern, M Manjare, AO Govorov, GP Wiederrecht, SK Gray, ... Nature communications 9 (1), 1853	9	2018
Superchiral plasmonic phase sensitivity for fingerprinting of protein interface structure R Tullius, GW Platt, L Khosravi Khorashad, N Gadegaard, AJ Lapthorn, ... ACS nano 11 (12), 12049-12056	9	2017
Optical Aharonov-Bohm Effect in Type-II (ZnMn) Te/ZnSe Quantum Dots IR Sellers, AO Govorov, BD McCombe Journal of Nanoelectronics and Optoelectronics 6 (1), 4-19	9	2011
Thermomechanical control of electronic coupling in quantum dot solids J Zhang, AA Lutich, AS Susha, M Döblinger, C Mauser, AO Govorov, ... Journal of Applied Physics 107 (12), 123516	9	2010
Simple and Complex Metafluids and Metastructures with Sharp Spectral Features in a Broad Extinction Spectrum: Particle–Particle Interactions and Testing the Limits of the Beer … LV Besteiro, K Gungor, HV Demir, AO Govorov The Journal of Physical Chemistry C 121 (5), 2987-2997	8	2017
Quantum Hall signatures of dipolar Mahan excitons GJ Schinner, J Repp, K Kowalik-Seidl, E Schubert, MP Stallhofer, AK Rai, ... Physical Review B 87 (4), 041303	8	2013
Plasmon enhancement of fluorescence in single light-harvesting complexes from amphidinium carterae L BUJAK, D PITKOWSKI, S MACKOWSKI, S WOrmke, C JUNG, ... Acta Physica Polonica A 116, S22-S25	8	2009
Capacitance of electron wires in a high magnetic field AO Govorov Physical Review B 51 (20), 14498	8	1995
Circular Dichroism of Chiral Molecules in DNA-Assembled Plasmonic Hotspots LM Kneer, EM Roller, LV Besteiro, R Schreiber, AO Govorov, T Liedl ACS nano 12 (9), 9110-9115	7	2018
Photothermal Effect of Plasmonic Nanoparticles and Related Bioapplications AO Govorov, Z Fan, AB Neiman Complex-Shaped Metal Nanoparticles: Bottom-Up Syntheses and Applications …	7	2012

TITLE	CITED BY	YEAR
Enhancement of the nonlinear acoustoelectric interaction in a photoexcited plasma in a quantum well AV Kalameitsev, AO Govorov, HJ Kutschera, A Wixforth Journal of Experimental and Theoretical Physics Letters 72 (4), 190-194	7	2000
Does the persistent current in a quantum loop depend on an electron-electron interaction? AO Govorov, AV Chaplik, L Wendler, VM Fomin JETP LETTERS C/C OF PIS'MA V ZHURNAL EKSPERIMENTAL'NOI TEORETICHESKOI FIZIKI …	7	1994
Plasmonic glasses and films based on alternative inexpensive materials for blocking infrared radiation L V. Besteiro, XT Kong, Z Wang, F Rosei, AO Govorov Nano letters 18 (5), 3147-3156	6	2018
Mid-infrared plasmonic circular dichroism generated by graphene nanodisk assemblies XT Kong, R Zhao, Z Wang, AO Govorov Nano Letters, 2017. arXiv preprint arXiv:1709.02064	6	2017
Modelling of photo-thermal control of biological cellular oscillators GS Assanov, ZZ Zhanabaev, AO Govorov, AB Neiman The European Physical Journal Special Topics 222 (10), 2697-2704	6	2013
Optical Aharonov-Bohm oscillations in InGaAs quantum wells L Schweidenback, T Ali, AH Russ, JR Murphy, AN Cartwright, A Petrou, ... Physical Review B 85 (24), 245310	6	2012
Thermal effects of colloidal suspensions of Au nanoparticles MT Carlson, TS Barton, PJ Tandler, HH Richardson, AO Govorov MRS Online Proceedings Library Archive 1172	6	2009
Multiply-charged magnetoexcitons in quantum-well systems AV Chaplik, AO Govorov Physica B: Condensed Matter 256, 477-480	6	1998
Low-frequency plasmons in coupled electronic microstructures AO Govorov, SA Studenikin, WR Frank Physics of the Solid State 40 (3), 499-502	6	1998
Nanoperforated graphene with alternating gap switching for optical applications H Chen, KH Jin, H Guo, B Wang, AO Govorov, X Niu, Z Wang Carbon 126, 480-488	5	2018
Chirality and Nanophotonics VK Valev, AO Govorov, J Pendry Advanced Optical Materials 5 (16), 1700501	5	2017
Chiroptical activity in colloidal quantum dots coated with achiral ligands D Melnikau, D Savateeva, N Gaponik, AO Govorov, YP Rakovich	5	2016

TITLE	CITED BY	YEAR
Optics express 24 (2), A65-A73		
Photoactive nanostructure and method of manufacturing same C Carmeli, I Carmeli, L Frolov, S Richter, Y Rosenwaks, A Govorov US Patent App. 12/918,352	5	2011
PHOTOACTIVE NANOSTRUCTURE AND METHOD OF MANUFACTURING SAME C Carmeli, I Carmeli, L Frolov, S Richter, Y Rosenwaks, A Govorov US Patent App. 12/918,352	5	2009
Modulation of the Aharonov–Bohm effect in type-II II–V ZnSe: Te quantum dots by a far-infrared laser IR Sellers, VR Whiteside, IL Kuskovsky, AO Govorov, BD McCombe Physica E: Low-dimensional Systems and Nanostructures 40 (6), 1819-1823	5	2008
Bioconjugated Ag Nanoparticles and CdTe Nanowires: Metamaterials with Field-Enhanced Light Absorption This work was supported in part by NSF Biophotonics and NSF CAREER at UM … J Lee, T Javed, T Skeini, AO Govorov, GW Bryant, NA Kotov WILEY-VCH Verlag	5	2006
Charged excitons in quantum dots: novel magnetic behavior and Auger processes AO Govorov, K Karrai, RJ Warburton, AV Kalameitsev Physica E: Low-dimensional Systems and Nanostructures 20 (3-4), 295-299	5	2004
Magnetic properties of charged excitons in self-assembled quantum dots C Schulhauser, A Högele, RJ Warburton, AO Govorov, W Schoenfeld, ... physica status solidi (b) 238 (2), 293-296	5	2003
Holstein polarons in a strong electric field: Delocalized and stretched states W Zhang, AO Govorov, SE Ulloa Physical Review B 66 (13), 134302	5	2002
Holstein polarons in a strong electric field: Delocalized and stretched states W Zhang, AO Govorov, SE Ulloa Physical Review B 66 (13), 134302	5	2002
Covellite CuS nanocrystals: realizing rapid microwave-assisted synthesis in air and unravelling the disappearance of their plasmon resonance after coupling with carbon nanotubes MR Kim, HA Hafez, X Chai, LV Besteiro, L Tan, T Ozaki, AO Govorov, ... Nanoscale 8 (26), 12946-12957	4	2016
Magneto-excitonic states in charge-tunable self-assembled quantum dots C Schulhauser, A Högele, AO Govorov, RJ Warburton, K Karrai, ... Physica E: Low-dimensional Systems and Nanostructures 25 (2-3), 233-241	4	2004
LETTERS TO THE FT Lee	4	1998

TITLE	CITED BY	YEAR
Dermatology 197, 1887189		
Theory of a mixed state related to the resonance of a Stark``ladder''and optical phonons AO Govorov, MV Entin Soviet Journal of Experimental and Theoretical Physics 77, 819-823	4	1993
Synthesis and Raman investigation of strained superlattices VA Haisler, TV Kurochkina, AO Govorov, VA Marcov, NT Moshegov, ... Superlattices and microstructures 10 (3), 279-283	4	1991
Inelastic light scattering by laterally modulated 2D electron plasma AV Chaplik, AO Govorov Superlattices and Microstructures 7 (2), 161-164	4	1990
Chiral plasmonic nanocrystals for generation of hot electrons: towards polarization-sensitive photochemistry T Liu, LV Besteiro, T Liedl, MA Correa-Duarte, Z Wang, AO Govorov Nano letters	3	2019
Traveling hot-spots in plasmonic photocatalysis: Manipulating interparticle spacing for real-time control of electron injection Y Negrín-Montecelo, M Comesaña-Hermo, XT Kong, ... ChemCatChem, 1-6	3	2018
Terahertz thermometry: Combining hyperspectral imaging and temperature mapping at terahertz frequencies R Naccache, A Mazhorova, M Clerici, R Piccoli, LK Khorashad, ... Laser & Photonics Reviews 11 (5), 1600342	3	2017
Understanding and Modeling Förster-type Resonance Energy Transfer (FRET): FRET-Applications HV Demir, PLH Martínez, A Govorov Springer	3	2016
Delocalization of Wannier-Stark ladders by phonons: Tunneling and stretched polarons W Zhang, AO Govorov, SE Ulloa EPL (Europhysics Letters) 58 (6), 857	3	2007
Delocalization of Wannier-Stark ladders by coherent phonons: tunneling and stretched polarons W Zhang, A Govorov, S Ulloa APS March Meeting Abstracts 1, 9012	3	2002
Acousto-optic effects of surface acoustic waves in semiconductor quantum well structures C Rocke, A Wixforth, JP Kotthaus, H Boehm, G Weimann arXiv preprint cond-mat/9609250	3	1996

TITLE	CITED BY	YEAR
Quantum fluctuations in a quantum dot array in the regime of ferroelectric phase transitions AV Chaplik, AO Govorov Journal of Physics: Condensed Matter 8 (22), 4071	3	1996
Inelastic light scattering by spin polarized electron gas AO Govorov, AV Chaplik Solid state communications 85 (9), 827-828	3	1993
Nonequilibrium charge spreading in two-dimensional electron systems AV Chaplik, AO Govorov Surface Science 196, 719-719	3	1988
Strong Quantum Confinement Effects and Chiral Excitons in Bio-Inspired ZnO-Amino Acid Co-Crystals HMM Abubaker, M Lamers, V Baumann, P Dey, AJ Blanch, I Polishchuk, ... J. Phys. Chem. C	2	2018
Near-Infrared Plasmonic Copper Nanocups Fabricated by Template-Assisted Magnetron Sputtering Y Qin, XT Kong, Z Wang, AO Govorov, UR Kortshagen ACS Photonics 4 (11), 2881-2890	2	2017
Chiral Nanostructures with Plasmon and Exciton Resonances Z Fan, H Zhang, R Schreiber, T Liedl, G Markovich, V Gérard, Y Gun'Ko, ... Singular and Chiral Nanoplasmonics, 19-73	2	2014
Optical Aharonov-Bohm effect in type-II quantum dots IR Sellers, IL Kuskovsky, AO Govorov, BD McCombe Physics of Quantum Rings, 267-297	2	2014
Single exciton emission from gate-defined quantum dots GJ Schinner, J Repp, E Schubert, AK Rai, D Reuter, AD Wieck, ... arXiv preprint arXiv:1204.3199	2	2012
Shedding light on non-equilibrium dynamics of a spin coupled to fermionic reservoir HE Türeci, M Hanl, M Claassen, A Weichselbaum, T Hecht, B Braunecker, ... arXiv preprint arXiv:0907.3854	2	2009
Photocurrent and spin manipulation in quantum dots JM Villas-Boas, SE Ulloa, AO Govorov Physica E: Low-dimensional Systems and Nanostructures 34 (1-2), 333-335	2	2006
Thermo-Optical Properties of Nanoparticles and Nanoparticle Complexes Embedded in Ice: Characterization of Heat Generation and Actuation of Larger-Scale Effects HH Richardson, ZN Hickman, AC Thomas, ME Kordesch, AO Govorov MRS Online Proceedings Library Archive 964	2	2006

TITLE	CITED BY	YEAR
Photocurrent oscillations in a quantum dot photodiode JM Villas-Bôas, SE Ulloa, AO Govorov Solid state communications 134 (1-2), 33-35	2	2005
Damping of coherent oscillations in a quantum dot photodiode JM Villas-Bôas, SE Ulloa, AO Govorov Physica E: Low-dimensional Systems and Nanostructures 26 (1-4), 337-341	2	2005
Bioconjugation between cote nanowires and Au nanoparticles: Fluorescence enhancement and energy transfer. JB Lee, AO Govoro, NA Kotov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 228, U897-U897	2	2004
Voltage-controlled trapping of excitons and “storage of light” in lateral superlattices S Zimmermann, AO Govorov, A Wixforth, C Rocke, W Hansen, ... Physica E: Low-dimensional Systems and Nanostructures 2 (1-4), 35-38	2	1998
Novel optoelectronic signal processing via the combination of SAW and semiconductor heterostructures M Streibl, C Rocke, AO Govorov, A Wixforth 1998 IEEE Ultrasonics Symposium. Proceedings (Cat. No. 98CH36102) 1, 107-110	2	1998
Inelastic light scattering by electron excitations with large wave vectors in a 2D magnetoplasma AO Govorov Journal of Experimental and Theoretical Physics 85 (3), 565-572	2	1997
Representation of multi-detailed data in object-oriented GISs AG Khorev, MO Govorov, EL Kasianova Proceedings of the second joint European conference & exhibition on …	2	1996
Effects of Coulomb interaction in the magneto-capacitance of quantum wires AO Govorov Solid-State Electronics 40 (1-8), 311-314	2	1996
Inelastic light scattering in quantum dots: effect of Coulomb interaction AO Govorov, LI Magarill Physics of the Solid State 36, 139-142	2	1994
Double-resonant Raman scattering by LO-phonons in quantum wells in a magnetic field AO Govorov Journal of Raman spectroscopy 24 (9), 591-595	2	1993
Phonon spectrum of GaAs-InAs superlattices VA Gaisler, AO Govorov, TV Kurochkina, NT Moshegov, SI Stenin, ... JETP 71 (3), 603	2	1990

TITLE	CITED BY	YEAR
Raman light scattering in tunnel-transparent superlattices AO Govorov, AV Chaplik Zhurnal Eksperimental noi i Teoreticheskoi Fiziki 94, 251-256	2	1988
Long-range Plasmon-Assisted Chiral Interactions in Nanocrystal Assemblies L Hu, T Liedl, K Martens, ZM Wang, AO Govorov ACS Photonics	1	2019
Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells AH Proppe, MH Elkins, O Voznyy, RD Pensack, F Zapata, LV Besteiro, ... The journal of physical chemistry letters 10 (3), 419-426	1	2019
Highly Efficient Copper Sulfide-Based Near-Infrared Photothermal Agents: Exploring the Limits of Macroscopic Heat Conversion R Marin, A Skripka, LV Besteiro, A Benayas, Z Wang, AO Govorov, ... Small 14 (49), 1803282	1	2018
Gap-plasmon enhanced water splitting with ultrathin hematite films: the role of plasmonic-based light trapping and hot electrons A Dutta, A Naldoni, F Malara, AO Govorov, VM Shalaev, A Boltasseva Faraday discussions	1	2018
Terahertz spectral imaging and thermal sensing for biomedical applications H Breitenbom, R Naccache, A Mazhorova, M Clerici, R Piccoli, ... 2017 42nd International Conference on Infrared, Millimeter, and Terahertz …	1	2017
Compositions having a mixture of strongly plasmonic nanorods and exhibiting an extinction spectrum transparency window A Govorov US Patent App. 15/129,454	1	2017
Understanding and Modeling Förster-type Resonance Energy Transfer (FRET): FRET from Single Donor to Single Acceptor and Assemblies of Acceptors PLH Martínez, A Govorov, HV Demir Springer	1	2016
Cover Picture: Theory of Chiral Plasmonic Nanostructures Comprising Metal Nanocrystals and Chiral Molecular Media (ChemPhysChem 10/2012) AO Govorov, Z Fan ChemPhysChem 13 (10), 2421-2421	1	2012
CdTe and Au quantum-dot bioconjugated super-molecules: light emission and energy transport J Lee, AO Govorov, J Dulka	1	2010
Fluorescence enhancement and energy transport from bioconjugation between nanowires and nanoparticles J Lee, AO Govorov, NA Kotov	1	2004

TITLE	CITED BY	YEAR
Physical Chemistry of Interfaces and Nanomaterials III 5513, 226-232		
Spin-dependent coupling of charged quantum dot excitons with continuum states B Urbaszek, RJ Warburton, K Karrai, C Schulhauser, A Hogele, ... Acta Physica Polonica-Series A General Physics 106 (3), 395-402	1	2004
Ballistic electron beams in semiconductor nanostructures: hydrodynamic pumping effect in a Fermi gas A Govorov, J Heremans APS Meeting Abstracts	1	2004
Spin-polarized reflection of electrons in a two-dimensional electron system H Chen, JJ Heremans, JA Peters, JP Dulka, AO Govorov, N Goel, ... arXiv preprint cond-mat/0308569	1	2003
Magneto-optical properties of charged excitons in quantum dots AO Govorov, C Schulhauser, D Haft, AV Kalameitsev, A Chaplik, ... arXiv preprint cond-mat/0202480	1	2002
Kondo-excitons and Auger processes in self-assembled quantum dots AO Govorov, K Karrai, RJ Warburton, AV Kalameitsev MRS Online Proceedings Library Archive 737	1	2002
Kondo-excitons and Auger processes in self-assembled quantum dots AO Govorov, K Karrai, RJ Warburton, AV Kalameitsev MRS Online Proceedings Library Archive 737	1	2002
Quantum wires and dots driven by intense surface acoustic waves and the quantum attenuation of sound in an electron plasma AO Govorov, AV Kalameitsev, VM Kovalev arXiv preprint cond-mat/0101227	1	2001
Electron wires driven by a surface acoustic wave and nonlinear acoustoelectric interactions in quantum wells AO Govorov, AV Kalameitsev, VM Kovalev, HJ Kutschera, M Streibl, ... SPRINGER PROCEEDINGS IN PHYSICS 87 (1), 869-870	1	2001
Nonlinear acoustoelectric and acoustooptic effects in semiconductor layered systems HJ Kutschera, A Wixforth, AV Kalameitsev, AO Govorov 2001 IEEE Ultrasonics Symposium. Proceedings. An International Symposium …	1	2001
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Nonlinear acoustoelectric transport in a two-dimensional electron system AO Govorov, AV Kalameitsev, M Rotter, A Wixforth, JP Kotthaus, ... Physical Review-Section B-Condensed Matter 62 (4), 2659-2668	1	2000
Amplification of nonlinear acousto-electron interactions in photoexcited plasma of quantum well AV Kalamejtsev, AO Govorov, HJ Kutschera	1	2000

TITLE	CITED BY	YEAR
Pis' ma v Zhurnal Ehksperimental'noj i Teoreticheskoj Fiziki 72 (3-4), 273-278		
Voltage-tuneable Bragg reflector based on the quantum confined Stark effect AO Govorov, W Hansen, JP Kotthaus Journal of applied physics 80 (12), 7151-7153	1	1996
Physical properties of few electron mesoscopic rings: Persistent currents, optical absorption and Raman scattering L Wendler, VM Fomin, AV Chaplik, AO Govorov Physica B: Condensed Matter 227 (1-4), 397-399	1	1996
Inelastic light scattering by Wigner crystal electrons AO Govorov FIZIKA TVERDOGO TELA 38 (9), 2673-2679	1	1996
Inelastic light scattering by the electrons of a Wigner crystal AO Govorov Physics of the Solid State 38 (9), 1466-1469	1	1996
THEORY OF MIXED-STATE INTERACTING WITH RESONANCE OF STARK STAIRCASE AND OPTICAL PHONONS AO Govorov, MV Entin ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 104 (5), 3792-3800	1	1993
INELASTIC-SCATTERING OF LIGHT BY 2-DIMENSIONAL ELECTRONS WITH LARGE TRANSFER OF ENERGY AO Govorov, AV Chaplik ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 98 (5), 1564-1569	1	1990
Chiral Plasmonic Nanostructures Enabled by Bottom-Up Approaches MJ Urban, C Shen, XT Kong, C Zhu, AO Govorov, Q Wang, M Hentschel, ... Annual review of physical chemistry 70		2019
Theory of hot electrons: general discussion J Aizpurua, F Baletto, J Baumberg, P Christopher, B de Nijs, ... Faraday discussions		2019
Hot Carrier Induced Plasmon Enhanced Photocatalysis in Hematite Thin Films A Dutta, A Naldoni, A Govorov, VM Shalaev, A Boltasseva CLEO: QELS_Fundamental Science, FTh1C. 2		2019
Photoreactions with CO/CO2 Promoted By Hot Electrons in Plasmonic Metastructures L Chang, W Wang, Z Wang, A Govorov Meeting Abstracts, 1644-1644		2019
(Keynote) Generation of Hot Electrons in Plasmonic and Hybrid Metastructures for Photochemical Applications AO Govorov, LV Besteiro, L Chang, Z Wang		2019

TITLE	CITED BY	YEAR
Meeting Abstracts, 1617-1617		
Photothermal Effect and Circular Dichroism in Chiral Plasmonic Metamaterials and Bolometers L Khosravi Khorashad, XT Kong, A Govorov Bulletin of the American Physical Society		2019
Time-Resolved Temperature-Jump Measurements and Theoretical Simulations of Nanoscale Heat Transfer Using NaYF4: Yb3+: Er3+ Upconverting Nanoparticles AR Miandashti, LK Khorashad, AO Govorov, ME Kordesch, ... JOURNAL OF PHYSICAL CHEMISTRY C 123 (6), 3770-3780		2019
Time-Resolved Temperature-Jump Measurements and Theoretical Simulations of Nanoscale Heat Transfer Using $NaYF_4$:Yb^{3+}: Er^{3+} Upconverting Nanoparticles A Rafiei Miandashti, L Khosravi Khorashad, AO Govorov, ME Kordesch, ... The Journal of Physical Chemistry C		2019
Time-Resolved Temperature-Jump Measurements and Theoretical Simulations of Nanoscale Heat Transfer Using $NaYF_4$: Yb^{3+}: Er^{3+} Upconverting Nanoparticles A Rafiei Miandashti, L Khosravi Khorashad, AO Govorov, ME Kordesch, ... Journal of physical chemistry		2019
Theory of Photo-Thermal Effects for Plasmonic Nanocrystals and Assemblies EY Santiago, LK Khorashad, AO Govorov Photo-Thermal Spectroscopy with Plasmonic and Rare-Earth Doped (Nano …		2019
Photo-Thermal Spectroscopy with Plasmonic and Rare-Earth Doped (Nano) Materials: Basic Principles and Applications AR Miandashti, S Baral, EY Santiago, LK Khorashad, AO Govorov, ... Springer		2018
Heat Conversion: Highly Efficient Copper Sulfide-Based Near-Infrared Photothermal Agents: Exploring the Limits of Macroscopic Heat Conversion (Small 49/2018) R Marin, A Skripka, LV Besteiro, A Benayas, Z Wang, AO Govorov, ... Small 14 (49), 1870238		2018
Generation of hot electrons in nanostructures incorporating conventional and unconventional plasmonic materials T Liu, LV Besteiro, Z Wang, AO Govorov Faraday discussions		2018
Quantum and classical phenomena in bio-plasmonic nanostructures and assemblies (Conference Presentation) A Govorov, L Besteiro Quantum Nanophotonics 2018 10734, 107340F		2018

TITLE	CITED BY	YEAR
Conversion of light energy into heat and hot electrons using hybrid nanostructures with plasmonic hot spots A Govorov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 256		2018
The Mechanisms of Hot-Electron Generation in Plasmonic and Hybrid Nanomaterials: Comparing Different Material Systems and Geometries A Govorov, LV Besteiro, XT Kong Meeting Abstracts, 2179-2179		2018
Hot-Electron Generation and Energy Transfer in Plasmonic Nanostructures with Hot Spots: Quantum and Classical Mechanisms AO Govorov Meeting Abstracts, 1865-1865		2018
Optical Phenomena in Bio-Assembled Nanostructures with Plasmonic and Excitonic Resonances AO Govorov Meeting Abstracts, 1153-1153		2018
Charge and energy transfer in 2D colloidal semiconductor nanoplatelet quantum wells B Diroll, C Rowland, I Fedin, P Darancet, A Govorov, D Talapin, ... ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 255		2018
Plasmonic Glasses and Films Based on Alternative Inexpensive Materials for Blocking Infrared Radiation L Vazquez Besteiro, XT Kong, Z Wang, F Rosei, A Govorov ChemRxiv		2018
Ultra-Fast Light Energy Transfer with Suppressed Losses Through Hot-Spots in Heterogeneous Plasmonic Arrays L Vazquez Besteiro, E Roller, L Khosravi Khorashad, T Liedl, A Govorov APS Meeting Abstracts		2018
Design of in-plane graphene metasurfaces for generating strong mid-infrared circular dichroism XT Kong, Z Wang, A Govorov APS Meeting Abstracts		2018
Plasmonic Heating: Efficient and Controlled Heating at the Nanoscale L Khosravi Khorashad, L Vazquez Besteiro, A Govorov APS Meeting Abstracts		2018
Hot-electron generation in plasmonic nanostructures with hot spots: Quantum mechanisms A Govorov, L Vazquez Besteiro, XT Kong, Z Wang, G Wiederrecht APS Meeting Abstracts		2018
Publisher Correction: Enhanced generation and anisotropic Coulomb scattering of hot electrons in an ultra-broadband plasmonic nanopatch		2017

TITLE	CITED BY	YEAR
metasurface ME Sykes, JW Stewart, GM Akselrod, XT Kong, Z Wang, DJ Gosztola, ... Nature communications 8 (1), 2135		
Optical and energy-related phenomena in metal nanocrystal chains with hot spots: Coherent transfer of plasmons, hot electrons and heat generation A Govorov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 254		2017
Single and multiexciton energy and electron transfer processes in 2D semiconductor structures B Diroll, C Rowland, P Guo, I Fedin, P Darancet, S Gray, A Govorov, ... ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 254		2017
Chirality and Nanophotonics: Chirality and Nanophotonics (Advanced Optical Materials 16/2017) VK Valev, AO Govorov, J Pendry Advanced Optical Materials 5 (16)		2017
Broadband hot electron generation for solar energy conversion with plasmonic titanium nitride A Naldoni, U Guler, Z Wang, M Marelli, F Malara, X Meng, LV Besteiro, ... CLEO: QELS_Fundamental Science, FTu4H. 6		2017
Multi-dimensional imaging in the terahertz regime for theranostic applications H Breitenborn, R Naccache, A Mazhorova, M Clerici, R Piccoli, ... 2017 Conference on Lasers and Electro-Optics (CLEO), 1-2		2017
Nonradiative energy transfer in assembly of nanostructures PL Hernández-Martínez, A Govorov, HV Demir Understanding and modeling förster-type resonance energy transfer (FRET), 27-38		2017
Förster-type nonradiative energy transfer rates for nanostructures with various dimensionalities A Govorov, HV Demir SpringerBriefs in Applied Sciences and Technology, 9-25		2017
Understanding and modeling förster-type resonance energy transfer (FRET): FRET-applications, Vol. 3 V Demir, A Govorov SpringerBriefs in Applied Sciences and Technology, i-iv		2017
Understanding and modeling förster-type resonance energy transfer (FRET): FRET from single donor to single acceptor and assemblies of acceptors, vol. 2 A Govorov, HV Demir SpringerBriefs in Applied Sciences and Technology, iv-v		2017
Modeling the generation of hot plasmonic electrons in metal nanocrystals with hot spots. A quantum model		2017

TITLE	CITED BY	YEAR
LV Besteiro, XT Kong, AO Govorov APS Meeting Abstracts		
An Efficient Energy Transfer Mechanism on the Nanoscale Using Plasmonic Nanoparticles LK Khorashad, LV Besteiro, EM Roller, C Pupp, T Liedl, AO Govorov http://www.2physics.com		2017
Quantum and Classical Plasmonic Phenomena in Nanoparticle Arrays A Govorov, L Besteiro, L Khosravi Khorashad, XT Kong, EM Roller, ... APS Meeting Abstracts		2017
Photothermal Plasmonic Effects and Localization of Excess Temperature Using Metal Nanostructures L Khosravi Khorashad, LV Besteiro, AO Govorov APS Meeting Abstracts		2017
Broadband Hot Electron Creation in Gap Plasmon Nanostructures G Wiederrecht, M Sykes, J Stewart, G Akselrod, D Gosztola, XT Kong, ... APS Meeting Abstracts		2017
Understanding Cooperative Chirality at the Nanoscale S Yu, PP Wang, A Govorov, M Ouyang APS March Meeting Abstracts		2017
Nonradiative Energy Transfer in Assembly of Nanostructures PLH Martínez, A Govorov, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 27-38		2017
Förster-Type Nonradiative Energy Transfer Rates for Nanostructures with Various Dimensionalities PLH Martínez, A Govorov, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 9-25		2017
Applying Förster-Type Nonradiative Energy Transfer Formalism to Nanostructures with Various Directionalities: Dipole Electric Potential of Exciton and Dielectric Environment PLH Martínez, A Govorov, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 1-8		2017
Förster-type Resonance Energy Transfer (FRET): Applications HV Demir, PLH Martínez, A Govorov Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 1-40		2017
Bio-inspired nanostructure: DNA-based plasmonic assemblies, chirality, and transparency window effect (Conference Presentation) A Govorov, F Ouchen Nanobiosystems: Processing, Characterization, and Applications IX 9928, 99280B		2016
Generation of hot plasmonic electrons and heat in metal nanocrystals with hot spots (Conference Presentation)		2016

TITLE	CITED BY	YEAR
A Govorov Metamaterials, Metadevices, and Metasystems 2016 9918, 991803		
Generation of Hot Plasmonic Electrons and Heat in Nanocrystals with Hot Spots AO Govorov Meeting Abstracts, 3626-3626		2016
Plasmonic nanocrystals with hot spots: Bio-chirality and heat generation A Govorov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 252		2016
Generation of hot plasmonic electrons and heat in metal nanocrystals with hot spots A Govorov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 252		2016
Controlling the ultrafast hot electron response in plasmonic nanostructures H Harutyunyan, ABF Martinson, LK Khorashad, AO Govorov, ... 2016 Conference on Lasers and Electro-Optics (CLEO), 1-2		2016
“Teramometry” and plasmonic nanoparticle imaging for temperature-sensing in the terahertz regime A Mazhorova, R Naccache, M Clerici, LK Khorashad, AO Govorov, ... CLEO: QELS_Fundamental Science, FM4N. 3		2016
Optical activity and circular dichroism of plasmonic nanorod assemblies K Khorashad, N Liu, AO Govorov Bulletin of the American Physical Society 61		2016
Kinetic Density Functional Theory for Plasmonic Nanostructures L V Besteiro, H Zhang, A Govorov Bulletin of the American Physical Society 61		2016
Theoretical Approaches: Exciton Theory, Coulomb Interactions and Fluctuation-Dissipation Theorem A Govorov, PLH Martínez, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 41-51		2016
Förster-Type Nonradiative Energy Transfer Models A Govorov, PLH Martínez, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 19-27		2016
Background Theory A Govorov, PLH Martínez, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 29-40		2016
Short History of Energy Transfer Theory Before Förster, At The Time of Förster, and After Förster A Govorov, PLH Martínez, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 1-8		2016

TITLE	CITED BY	YEAR
Energy Transfer Review A Govorov, PLH Martínez, HV Demir Understanding and Modeling Förster-type Resonance Energy Transfer (FRET), 9-17		2016
Optical activity and circular dichroism of plasmonic nanorod assemblies L Khosravi Khorashad, N Liu, AO Govorov APS Meeting Abstracts		2016
Kinetic Density Functional Theory for Plasmonic Nanostructures H Zhang, A Govorov APS Meeting Abstracts		2016
Photocatalysis: Harvesting Lost Photons: Plasmon and Upconversion Enhanced Broadband Photocatalytic Activity in Core@ Shell Microspheres Based on Lanthanide-Doped NaYF4, TiO2 … Z Xu, M Quintanilla, F Vetrone, AO Govorov, M Chaker, D Ma Advanced Functional Materials 25 (20), 2941-2941		2015
Plasmonic metastructures exhibiting a narrow transparency window within a broad extinction spectrum L V Besteiro, H Zhang, K Gungor, H Volkan Demir, A Govorov Bulletin of the American Physical Society 60		2015
Plasmonic metastructures exhibiting a narrow transparency window within a broad extinction spectrum H Zhang, K Gungor, H Volkan Demir, A Govorov APS March Meeting Abstracts		2015
Study of plasmonic and magnetic modes in non-symmetric gold nano-ring geometries L Khosravi Khorashad, H Zhang, EM Roller, T Liedl, AO Govorov APS March Meeting Abstracts		2015
Generation of hot plasmonic carriers, thermal effects and plasmonic photochemistry in metal nanocrystals A Govorov, H Zhang, L Vázquez, Y Gun'ko, M Ouyang APS March Meeting Abstracts		2015
Symposium NT1: Functional Nanostructures and Metamaterials for Solar Energy and Novel Optical Phenomena A Govorov, DP Tsai, G Wiederrecht, H Jackson, N Halas, ... Energy 2014 (2013), 2012		2015
Invited Presentations on Plasmonic Photocatalysts and Photoelectrochemical Cells I A Govorov 2014 ECS and SMEQ Joint International Meeting (October 5-9, 2014)		2014
Generation and Injection of Hot Plasmonic Electrons from Optically-Excited Metal Nanocrystals for Photocatalysis and Solar Energy Applications A Govorov, H Zhang, I Gun'ko		2014

TITLE	CITED BY	YEAR
Meeting Abstracts, 566-566		
Exciton recombination dynamics in type II CdTe-Cu2-xTe nano-heterostructures with excitonic and plasmonic properties I Kriegel, A Wisnet, ARS Kandada, F Scotognella, F Tassone, C Scheu, ... International Conference on Ultrafast Phenomena, 09. Wed. P3. 33		2014
Plasmonic Metastructures and Nanocomposites with a Narrow Transparency Window in a Broad Extinction Spectrum H Zhang, HV Demir, AO Govorov arXiv preprint arXiv:1406.2429		2014
A reconfigurable 3D plasmonic nanomachine A Kuzyk, R Schreiber, H Zhang, A Govorov, T Liedl, N Liu Workshop on Optical Plasmonic Materials, OW3D. 4		2014
Plasmonic Circular Dichroism of Chiral Nanoparticle Assemblies Z Fan, H Zhang, A Govorov APS Meeting Abstracts		2014
Plasmon Resonances and Size-Quantization Effects in Doped Semiconductor Nanocrystals H Zhang, V Kulkarni, E Prodan, P Nordlander, AO Govorov APS Meeting Abstracts		2014
Photogeneration of hot plasmonic carriers with metal nanocrystals A Govorov, H Zhang, Y Gun'ko APS Meeting Abstracts		2014
Dipole and Quadrupole Plasmon Resonances in Gold Nanoring Structures L Khosravi Khorashad, H Zhang, EM Roller, T Liedl, AO Govorov APS March Meeting Abstracts		2014
Förster-type Nonradiative Energy Transfer for Assemblies of Arrayed Nanostructures: Confinement Dimension vs. Stacking Dimension HV Demir, PL Hernandez Martinez, AO Govorov APS Meeting Abstracts		2014
Optically-active hybrid nanostructures: Injection of hot plasmonic electrons, exciton-plasmon interaction, chirality and related applications A Govorov 2013 IEEE Photonics Conference, 145-145		2013
Theory of photo-injection of hot plasmonic carriers in metal-semiconductor nanostructures AO Govorov, H Zhang, YK Gounko arXiv preprint arXiv:1305.0804		2013
Giant circular dichroism of a molecule in a plasmonic nanoparticle dimer H Zhang, AO Govorov Bulletin of the American Physical Society		2013

TITLE	CITED BY	YEAR
Phonon-assisted nonradiative energy transfer in quantum dot-silicon nanostructures PL Hernandez Martinez, A Yeltik, B Guzelturk, AO Govorov, HV Demir APS Meeting Abstracts		2013
Optical properties and circular dichroism of chiral metal nanoparticles Z Fan, A Govorov, OU Team APS Meeting Abstracts		2013
Phonon-induced Transparency in Quantum Dot Molecules M Kerfoot, A Govorov, D Lu, R Babaoye, A Bracker, D Gammon, ... APS Meeting Abstracts		2013
Exciton-plasmon interaction and photo-injection of plasmonic hot carriers in hybrid nanostructures A Govorov, H Zhang, M Ouyang, Y Gun'ko APS Meeting Abstracts		2013
144 Sculpting light with DNA origami A Kuzyk, R Schreiber, Z Fan, G Pardatscher, EM Roller, A Högele, ... Journal of Biomolecular Structure and Dynamics 31 (sup1), 92-93		2013
Plasmon responses and optical chirality of helical nanoparticle assemblies Z Fan, A Govorov APS Meeting Abstracts		2012
Optical Aharonov-Bohm Effect in Al0. 08Ga0. 92As/Al. 25Ga0. 75As Quantum Wells A Russ, L Schweidenback, J Murphy, A Cartwright, A Petrou, ... APS Meeting Abstracts		2012
Plasmonic Circular Dichroism Effect in Nanomaterials H Zhang, Z Fan, A Govorov APS Meeting Abstracts		2012
Excitonics of Hybrid Nanostructures Arranged with Mixed Dimensionality PL Hernandez Martinez, AO Govorov, HV Demir APS Meeting Abstracts		2012
DNA-based self-assembly of chiral plasmonic nanostructures with tailored optical response FC Simmel, AO Govorov, T Liedl		2012
Robust Coherent Magneto-optical Properties of Columnar Type-II Quantum Dots in ZnTe/ZnSe and ZnMnTe/ZnSe Systems VR Whiteside, IR Sellers, M Eginligil, R Oszwaldowski, A Petrou, I Zutic, ... AIP Conference Proceedings 1399 (1), 483-484		2011
Optical properties of hybrid nanostructures: exciton-plasmon interaction, Fano effect, and plasmon-induced chirality A Govorov		2011

TITLE	CITED BY	YEAR
IEEE Photonic Society 24th Annual Meeting, 789-790		
Optical properties, light-harvesting, and energy transfer in hybrid nanomaterials A Govorov APS Ohio Sections Fall Meeting Abstracts		2011
Exciton-plasmon and spin-plasmon interactions in hybrid semiconductor-metal nanostructures A Govorov APS Meeting Abstracts		2011
Optical properties of chiral metal nanoparticle complexes: Plasmonic chirality and circular dichroism Z Fan, A Govorov APS Meeting Abstracts		2011
Photoluminescence intensity oscillations with magnetic field in InGaAs quantum wells L Schweidenback, A Russ, T Ali, J Murphy, A Cartwright, A Petrou, ... APS Meeting Abstracts		2011
Plasmon induced modifications of the Förster energy transfer in reconstituted peridinin-chlorophyll-protein photosynthetic complex MK Schmidt, AO Govorov, S Mackowski MRS Online Proceedings Library Archive 1286		2011
Semiconductor quantum dots as light-harvesting antennae for artificial photosynthesis applications A Rakovich, A Sukhanova, E Lukashev, V Zagidullin, V Pachenko, ... ACS National Meeting Book of Abstracts		2011
Many-body exciton states in self-assembled quantum dots coupled to a Fermi sea PM Koenraad, N Kleemans, J van Bree, AO Govorov, GJ Hamhuis, ... APS Meeting Abstracts		2010
Plasmon-enhanced absorption in a metal nanoparticles and photosynthetic molecules hybrid system Z Fan, A Govorov APS March Meeting Abstracts		2010
Thermo-optical Properties of Gold Nanoparticles and Carbon Nanotubes: Characterization of Heat Generation PL Hernandez-Martinez, HH Richardson, AO Govorov APS Meeting Abstracts		2010
Exciton-plasmon interactions and energy transfer in nanoparticles A Govorov APS March Meeting Abstracts		2009

TITLE	CITED BY	YEAR
Photosynthetic nanoparticle complexes A Govorov APS Meeting Abstracts		2009
Excitons and plasmons in coupled nanoparticles and nanowires PL Hernandez-Martinez, AO Govorov APS Meeting Abstracts		2009
Erratum to the article``Optical and electronic properties of quantum dots with magnetic impurities"[CR Physique 9 (2008) 857-873] AO Govorov Comptes Rendus Physique 10, 101-101		2009
Thermal Transport Properties of Nanostructures Immobilized Substrates HH Richardson, AC Thomas, MT Carlson, AO Govorov MRS Online Proceedings Library Archive 1172		2009
COLL 496-Novel suprastructure design using nanowires and polymers: Optical and electronic properties J Lee, NA Kotov, AO Govorov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 235		2008
Coherent Aharonov Bohm oscillations in type-II (ZnMn) Te quantum dots IR Sellers, VR Whiteside, AO Govorov, WC Fan, WC Chou, I Khan, ... arXiv preprint arXiv:0803.2537		2008
Nonlinear Fano effect in semiconductor quantum dots: Detecting weak interactions A Govorov APS March Meeting Abstracts		2008
Robust Aharanov-Bohm oscillations at elevated temperatures in type-II ZnTe/ZnSe quantum dots VR Whiteside, IR Sellers, IL Kuskovsky, AO Govorov, BD McCombe APS Meeting Abstracts		2008
Electronic states in magnetic quantum dots and quantum-dot molecules: Coulomb interaction effects and spontaneous symmetry breaking A Govorov, W Zhang APS Meeting Abstracts		2008
Optical Aharanov-Bohm oscillations in DMS type-II ZnMnTe/ZnSe quantum dots IR Sellers, VR Whiteside, M Eginligil, WC Chou, I Khan, A Petrou, ... APS Meeting Abstracts		2008
FePt Nano-particles and Nano-wires L Colak, G Hadjipanayis APS Meeting Abstracts		2008

TITLE	CITED BY	YEAR
METHODS FOR ACTUATION WITH PARTICLES USING LIGHT EFFECTING A SITE DIRECTED TEMPERATURE CHANGE H RICHARDSON, A GOVOROV WO Patent 2,008,018,893		2008
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Optical properties of coupled metal-semiconductor and metal-molecule nanocrystal complexes: Role of … JY Yan, W Zhang, S Duan, XG Zhao, AO Govorov Physical Review B Condensed Matter And Materials Physics 78 (16), 165301		2008
Excitons and Spins in Quantum Dots Coupled to a Continuum of States AO Govorov Self-Assembled Quantum Dots, 217-238		2008
Aharonov-Bohm oscillations in Type-II ZnSe1-xTex excitons. IR Sellers, VR Whiteside, BD McCombe, IL Kuskovsky, W MacDonald, ... APS Meeting Abstracts		2007
Non-Equilibrium Exciton Spin Dynamics in Resonantly Pumped Single Core-Shell GaAs-AlGaAs Nanowires TB Hoang, LV Titova, HE Jackson, LM Smith, JM Yarrison-Rice, ... APS Meeting Abstracts		2007
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Electronic states in a magnetic quantum-dot molecule: Instabilities and spontaneous symmetry breaking W Zhang, T Dong, AO Govorov Physical Review-Section B-Condensed Matter 76 (7), 75319-75319		2007
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Theory of plasmon-enhanced Forster energy transfer in optically excited semiconductor and metal … AO Govorov, J Lee, NA Kotov Physical Review-Section B-Condensed Matter 76 (12), 125308-125308		2007
Electronic states in a magnetic quantum-dot molecule: phase transitions and spontaneous symmetry breaking W Zhang, T Dong, AO Govorov arXiv preprint cond-mat/0608284		2006
Nanoscale thermometer for confined fluids and related systems with molecular springs NA Kotov, J Lee, AO Govorov ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 231		2006
Microscopic Models of Hybrid Nanocrystal Superstructures: photonic properties AO Govorov, GW Bryant, W Zhang, T Skeini, J Lee, NA Kotov APS Meeting Abstracts		2006

TITLE	CITED BY	YEAR
Optical properties of semiconductor-metal nanocrystal molecules: Exciton-plasmon interactions W Zhang, AO Govorov, GW Bryant APS Meeting Abstracts		2006
Observation of Optical Signature of the Aharonov-Bohm Phase in Type-II Quantum Dots I Kuskovsky, W MacDonald, MC Tamargo, AO Govorov, X Wei, M Tadic, ... APS Meeting Abstracts		2006
Optical manipulation of electron spin in quantum dot systems J Villas-Boas, S Ulloa, A Govorov APS Meeting Abstracts		2006
Assemblies of Cdte Nanowires with Au and Ag Nanoparticles: Exciton-Plasmon Interaction Vs Field-Enhanced Light Absorption J Lee, NA Kotov, AO Govorov, T Javed, T Skeini, GW Bryant The 2006 Annual Meeting		2006
Molecular Spring Assemblies from Nanowires NA Kotov, J Lee, AO Govorov The 2006 Annual Meeting		2006
Nanoparticle Assemblies: Optical and Electrical Properties and Their Biomedical Sensing and Imaging Applications J Lee, NA Kotov, AO Govorov The 2006 Annual Meeting		2006
Dynamic Nanoparticle Temperature Sensors GD Lilly, J Lee, NA Kotov, AO Govorov The 2005 Annual Meeting		2005
Spin-polarized And Ballistic Transport In InSb/InAlSb Heterostructures H Chen, JA Peters, AO Govorov, JJ Heremans, N Goel, SJ Chung, ... AIP Conference Proceedings 772 (1), 1379-1380		2005
Population Inversion and Coherent Phonon Emission in a Biased Quantum Dot System Placed in an Acoustic Cavity L Mourokh, A Smirnov, A Govorov AIP Conference Proceedings 772 (1), 813-814		2005
Dynamics of Bright and Dark Excitons in a Self-Assembled Quantum Dot PA Dalgarno, M Ediger, JM Smith, RJ Warburton, K Karrai, AO Govorov, ... AIP Conference Proceedings 772 (1), 645-646		2005
Spin-Dependent Coupling Of Charged Excitons In Quantum Dots With Continuum States B Urbaszek, RJ Warburton, EJ McGhee, M Ediger, K Karrai, ... AIP Conference Proceedings 772 (1), 751-752		2005

TITLE	CITED BY	YEAR
Magnetic semiconductor artificial atom with many particles: Thomas-Fermi model and ferromagnetic phases AO Govorov arXiv preprint cond-mat/0504559		2005
Dynamic optical spin switch in a single quantum dot photodiode JM Villas-Boas APS Meeting Abstracts		2005
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Thomas-Fermi model and ferromagnetic phases of magnetic semiconductor quantum dots AO Govorov Physical Review-Section B-Condensed Matter 72 (7), 75358-75358		2005
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Voltage-tunable ferromagnetism in semimagnetic quantum dots with few particles: Magnetic polarons … AO Govorov Physical Review-Section B-Condensed Matter 72 (7), 75359-75359		2005
Assembly of Nanomaterials Using Polymers and Biomaterials: Sensing and Electronic Applications A Govorov, N Kotov, J Lee MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS 901, 366		2005
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Optical properties of a semiconductor quantum dot with a single magnetic impurity: Photoinduced … AO Govorov, AV Kalameitsev Physical Review-Section B-Condensed Matter 71 (3), 35338-35338		2005
Assembly of Nanomaterials using Polymers and Biomaterials: Sensing and Electronic Applications J Lee, NA Kotov, AO Govorov MRS Online Proceedings Library Archive 901		2005
Selective optical manipulation of the spin state of a single magnetic impurity in a semiconductor quantum dot AO Govorov, AV Kalameitsev arXiv preprint cond-mat/0407705		2004
Spin-dependent transport of electrons in the presence of smooth lateral barrier and spin-orbit interaction AO Govorov, AV Kalameitsev, JP Dulka arXiv preprint cond-mat/0407126		2004
Electronic quantum dot states induced through photon emission C Schulhauser, A Högele, RJ Warburton, AO Govorov, K Karrai, ... physica status solidi (c) 1 (8), 2079-2093		2004

TITLE	CITED BY	YEAR
Excitons and spin-dependent optical effects in semiconductor quantum dots A Govorov, R Warburton, K Karrai APS Ohio Sections Spring Meeting Abstracts		2004
Impurity-enhanced Aharonov-Bohm effect in neutral quantum-ring magnetoexcitons LGGV da Silva, SE Ulloa, AO Govorov arXiv preprint cond-mat/0403071		2004
Impurity effects on polarized magnetoexcitons with ring-like confinement. LGD da Silva, SE Ulloa, AO Govorov Bulletin of the American Physical Society 49 (1)		2004
Spin-polarized reflection and filtering of electrons in a two-dimensional system, as an avenue for spintronics H Chen, JJ Heremans, JA Peters, JP Dulka, AO Govorov, N Goel, ... APS Meeting Abstracts		2004
Spin-filtering in a two-dimensional electron gas with a potential barrier J Dulka, A Govorov, A Kalameitsev, H Chen, J Heremans APS Meeting Abstracts		2004
Spin-dependent conductance of two-dimensional mesoscopic structures in the presence of spin-orbit interaction J Dulka, A Govorov, H Chen, J Heremans APS March Meeting Abstracts		2004
Impurity effects on polarized magnetoexcitons with ring-like confinement. LG Dias da Silva, SE Ulloa, AO Govorov APS Meeting Abstracts		2004
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Optical probing of the spin state of a single magnetic impurity in a self-assembled quantum dot AO Govorov Physical Review-Section B-Condensed Matter 70 (3), 35321-35321		2004
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Charged donors in quantum dots: Finite difference and fractional dimensions results C Riva, RA Escorcia, AO Govorov, FM Peeters Physical Review-Section B-Condensed Matter 69 (24), 245306-245306		2004
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Spin-dependent transport of electrons in the presence of a smooth lateral potential and spin-orbit … AO Govorov, AV Kalameitsev, JP Dulka Physical Review-Section B-Condensed Matter 70 (24), 245310-245310		2004
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Impurity effects on the Aharonov-Bohm optical signatures of neutral		2004

TITLE	CITED BY	YEAR
quantum-ring magnetoexcitons LD Silva, SE Ulloa, AO Govorov Physical Review-Section B-Condensed Matter 70 (15), 155318-155318		
Tunneling control in a double quantum dot using Rabi oscillations JM Villas-Boas, AO Govorov, SE Ulloa APS Ohio Sections Fall Meeting Abstracts		2003
Spin and energy transfer in nanocrystals without transport of charge AO Govorov arXiv preprint cond-mat/0304663		2003
Aharonov-Bohm signature for neutral excitons in type-II quantum dot ensembles E Ribeiro, G Medeiros-Ribeiro, W Carvalho Jr, AO Govorov arXiv preprint cond-mat/0304092		2003
Aharonov-Bohm signature for neutral excitons in type-II quantum dots E Ribeiro, W Carvalho, G Medeiros-Ribeiro, AO Govorov		2003
Excitons and magnetic fields in bidimensional quantum rings J Sierra-Ortega, ID Mikhailov, SE Ulloa, AO Govorov APS Meeting Abstracts		2003
Rotational Holstein Polarons W Zhang, AO Govorov, SE Ulloa APS March Meeting Abstracts		2003
Theory of Kondo-excitons in self-assembled quantum dots interacting with the Fermi sea A Govorov, K Karrai, R Warburton APS Meeting Abstracts		2003
Hydrodynamic pumping of a quantum Fermi liquid in a semiconductor heterostructure JJ Heremans, AO Govorov, D Kantha, Z Nikodijevic arXiv preprint cond-mat/0302501		2003
Spectroscopy of self-assembled quantum rings RJ Warburton, B Urbaszek, EJ McGhee, C Schulhauser, A Högele, ... Physics of Semiconductors 2002: Proceedings of the 26th International …		2003
Polarized excitons in nanorings and theoptical'Aharonov-Bohm effect AO Govorov, SE Ulloa, K Karrai, RJ Warburton arXiv preprint cond-mat/0207183		2002
Excitons in nanorings. The signature of quantum phases in optical emission A Govorov, S Ulloa APS Meeting Abstracts		2002
Voltage-switchable Bragg reflector for planar optical waveguides WR Frank, AO Govorov, W Wegscheider, K Karrai, JP Kotthaus		2002

TITLE	CITED BY	YEAR
Physica E: Low-dimensional Systems and Nanostructures 13 (2-4), 377-380		
Polarons with a twist SE Ulloa, W Zhang, AO Govorov APS Meeting Abstracts		2002
Quantum transparency for intense surface acoustic waves in electron nanostructures. Towards quantum acoustics A Kalameitsev, A Govorov, A Wixforth APS Meeting Abstracts		2002
Absorption and light scattering by plazmons in nanotubes (Aharonov-Bohm oscillations) AI Vedernikov, AO Govorov, AV Chaplik IZVESTIYA AKADEMII NAUK SERIYA FIZICHESKAYA 66 (2), 212-215		2002
Light Absorption and Scattering by Plasmons in Nanotubes (Aharonov--Bohm Oscillations) AI Vedernikov, AO Govorov, AV Chaplik Bulletin of the Russian Academy of Sciences-Physics 66 (2), 224-227		2002
70 Condensed matter: electronic structure, electrical magnetic, and optical properties-Delocalization of Wannier-Stark ladders by phonons: Tunneling and stretched polarons W Zhang, AO Govorov, SE Ulloa Europhysics Letters 58 (6), 857-863		2002
Charged Excitons in Self-assembled Quantum Dots RJ Warburton, B Urbaszek, EJ McGhee, C Schulhauser, A Högele, ... MRS Online Proceedings Library Archive 737		2002
RAPID COMMUNICATIONS-Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Polarized excitons in nanorings and the optical Aharonov-Bohm effect AO Govorov, SE Ulloa, K Karrai, RJ Warburton Physical Review-Section B-Condensed Matter 66 (8), 81309R		2002
Plasma oscillations in nanotubes and Aharonov-Bohm effect for plasmons; Plazmennye kolebaniya v nanotrubkakh i ehffekt Aaronova-Boma dlya plazmonov AI Vedernikov, AO Govorov, AV Chaplik		2001
Intense surface acoustic waves in electron plasma of a quantum well: classical and quantum effects in the nonlinear sound attenuation AO Govorov, A Wixforth, AV Kalameitsev APS Meeting Abstracts		2001
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Determination of the complex microwave photoconductance of a single quantum dot H Qin, F Simmel, RH Blick, JP Kotthaus, W Wegscheider, M Bichler		2001

TITLE	CITED BY	YEAR
Physical Review-Section B-Condensed Matter 63 (3), 35320-35320		
Dynamics of Charge spreading in an Undoped GaAs-Quantum Well Structure J Krauß, AV Kalameitsev, AO Govorov, W Wegscheider, A Wixforth, ...		2001
Storage of photonic signals in voltage-controlled lateral potential superlattices J Kraubeta, AO Govorov, C Kadow, A Wixforth, JP Kotthaus SPRINGER PROCEEDINGS IN PHYSICS 87 (2), 1701-1702		2001
Spectroscopy of nano-rings A Lorke, RJ Luyken, AO Govorov, JP Kotthaus, JM Garcia, PM Petroff arXiv preprint cond-mat/9908263		1999
Acousto-Electric Transport Through a Two-Dimensional System in the Nonlinear Regime AO Govorov, M Rotter, M Streibl, C Rocke, AV Kalamseitsev RUSSIAN ACADEMY OF SCIENCES NOVOSIBIRSKINST OF SEMICONDUCTOR PHYSICS		1999
Focus: Electrons Carried by Sound Waves D Mackenzie Physics 3, 14		1999
ELECTRONIC TRANSPORT AND SEMICONDUCTORS-Imaging of acoustic charge transport in semiconductor heterostructures by surface acoustic waves M Streibl, A Wixforth, JP Kofthaus, AO Govorov, C Kadow, AC Gossard Applied Physics Letters 75 (26), 4139-4141		1999
Condensed Matter: Electronic Properties, etc-Charge Conveyance and Nonlinear Acoustoelectric Phenomena for Intense Surface Acoustic Waves on a Semiconductor Quantum Well M Rotter, AV Kalameitsev, AO Govorov, W Ruile, A Wixforth Physical Review Letters 82 (10), 2171-2174		1999
Structural instabilities of a two-dimensional Wigner crystal in a lateral superlattice AO Govorov Superlattices and microstructures 24 (4), 305-308		1998
Semiconductors II: Surfaces, interfaces, microstructures, and related topics-Tunnel ionization of quantum-well magnetoexcitons localized in a lateral trap AO Govorov, W Hansen Physical Review-Section B-Condensed Matter 58 (19), 12980-12985		1998
A Photon Assembly Line on a Semiconductor Quantum Well C Rocke, AO Govorov, A Wixforth, JP Kotthaus, G Böhm, G Weimann physica status solidi (a) 164 (1), 535-540		1997

TITLE	CITED BY	YEAR
Capacitance spectroscopy of compressible and incompressible stripes in a narrow electron channel D Schmerek, S Manus, AO Govorov, W Hansen, JP Kotthaus, M Holland Superlattices and microstructures 21 (1), 131-135		1997
Nanoparticle assemblies for temperature measurements N Kotov, A Govorov Nature 382, 607-609		1996
INELASTIC LIGHT-SCATTERING AT QUANTUM POINTS-EFFECT OF COULOMB INTERACTION AO GOVOROV, LI MAGARILL FIZIKA TVERDOGO TELA 36 (2), 256-263		1994
Raman scattering by LO phonons in GaAs/AlAs superlattices with ultrathin AlAs layers VA Gaisler, DA Tenne, AO Govorov, AK Bakarov, AI Toropov, ... JETP LETTERS C/C OF PIS'MA V ZHURNAL EKSPERIMENTAL'NOI TEORETICHESKOI FIZIKI …		1993
Raman scattering in GaAs/AlAs structures with paired quantum wells VA Gaisler, DA Ténné, AO Govorov, NT Moshegov, AI Toropov, ... JETP LETTERS C/C OF PIS'MA V ZHURNAL EKSPERIMENTAL'NOI TEORETICHESKOI FIZIKI …		1993
Inelastic scattering of light by two-dimensional electrons with large momentum transfer AO Govorov, AV Chaplik Soviet physics, JETP 71 (5), 876-879		1990
Raman effect in tunneling-transparent superlattices AO Govorov, AV Chaplik Soviet Physics-JETP (English Translation) 67 (12), 2532-2535		1988
74a Nanoparticle Assemblies with Molecular Springs J Lee, GD Lilly, AO Govorov, NA Kotov		
New Reprint B Yeom, H Zhang, H Zhang, JI Park, K Kim, AO Govorov, NA Kotov		
Physical Review Applied H Chen, S Li, F Scarpa, L Wang		
Article type: Review Broadband Metamaterial Absorber P Yu, LV Besteiro, Y Huang, J Wu, L Fu, HH Tan, C Jagadish, ...		
Fasching, G. 271 Ferry, DK 298 Forchel, A. 249 Fuhrer, A. 303 JK Furdyna, S Anders, MH Baier, M Bayer, HE Beere, W Biberacher, ...		
Supporting Information Study of Exciton Transfer in Dense Quantum Dot Nanocomposites		

TITLE	CITED BY	YEAR

B Guzelturk, PL Hernandez-Martinez, VK Sharma, Y Coskun, ...

Optically-active Hybrid Nanostructures: Exciton-plasmon Interaction, Fano Effect and Plasmonic Chirality
CNMN Colloquium, AS Govorov

Hilmi Volkan Demir Pedro Ludwig Hernández Martínez
A Govorov

Plasmonics enabled by DNA Nanotechnology.
A Kuzyk, R Schreiber, AO Govorov, T Liedl, N Liu

Bioconjugation between CdTe nanowires and Au nanoparticles: Fluorescence enhancement
JB Lee, AO Govorov, J Dulka, NA Kotov

Optical study of heat generation and melting for gold NPs embedded into ice matrix
H Richardson, Z Hickman, G Van Patten, M Kordesch, A Govorov
11th International Conference on the Physics and Chemistry of Ice (PCI-2006 …

THE ROLE OF NONLINEAR ACOUSTOELECTRIC AND ACOUSTOOPTIC INTERACTION IN SEMICONDUCTOR HETEROSTRUCTURE SAW DEVICES
HJ Kutschera, M Rotter, A Wixforth, AV Kalameitsev, AO Govorov

Nonlinear acousto-electric and acousto-optic interactions in electron nanostructures. Quantum transparency for intense surface acoustic waves
AV Kalameitsev, AO Govorov, VM Kovalev, HJ Kutschera, A Wixforth

Exciton-plasmon interaction, Fano effect, and optical chirality in semiconductor quantum dots and metal nanocrystals
AO Govorov, YK Gun'ko, T Liedl