



91 WYX!ghUH'fY'UI Uh'cb'jb'DVGY'ei Ubh a 'Xchg
Joonhee M. An, Marco Califano, Alberto Franceschetti, and Alex Zunger

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Exploring size and state dynamics in CdSe quantum dots using two-dimensional electronic spectroscopy

J. Chem. Phys. **140**, 084701 (2014); 10.1063/1.4865832

Carrier relaxation dynamics in InAs/InP quantum dots

Appl. Phys. Lett. **93**, 191103 (2008); 10.1063/1.2909536

Spin-preserving ultrafast carrier capture and relaxation in InGaAs quantum dots

Appl. Phys. Lett. **87**, 153113 (2005); 10.1063/1.2103399

Spectroscopy and carrier dynamics in CdSe self-assembled quantum dots embedded in $Zn_xCd_{1-x}Mg_ySe_{1-x-y}$

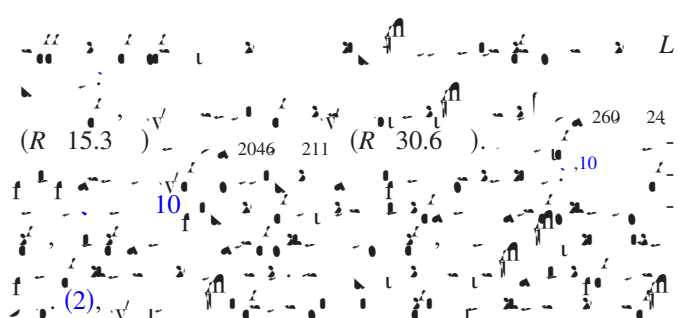
Appl. Phys. Lett. **87**, 253113 (2005); 10.1063/1.1947909

Excited-state dynamics and carrier capture in InGaAs/GaAs quantum dots

Appl. Phys. Lett. **78**, 3320 (2001); 10.1063/1.1418035

R ,

$$V(\mathbf{r}) = \sum_{\alpha} \sum_{\mathbf{R}} v_{\alpha}(|\mathbf{r} - \mathbf{R} - \mathbf{d}_{\alpha}|). \quad (4)$$



$$\epsilon^{-1}(\mathbf{r}_1, \mathbf{r}_2) = \epsilon^{-1}(\mathbf{r}_1, \mathbf{r}_2) + [\epsilon^{-1}(\mathbf{r}_1, \mathbf{r}_2) \epsilon^{-1}(\mathbf{r}_1, \mathbf{r}_2)] m(\mathbf{r}_1) m(\mathbf{r}_2), \quad (5)$$

$$m(\mathbf{r}) = \frac{1}{\sqrt{[\frac{\pi(R - |\mathbf{r}|)}{2d} + 1]/2}} \quad (|\mathbf{r}| \leq R - d, d \geq 1),$$

(4) ~ 0.5

(11) L

40

$$\begin{aligned}
 & \left(\geq 130 \text{ K} \right) \quad e_p \quad e_s \quad \sim \hbar \omega_p
 \end{aligned}$$

τ_A E

SUMMARY

$P \rightarrow S$ 3.12.2
20 35
10

